

CNA's Integrated Ship Database

Fourth Quarter 2011 Update

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CNA Interactive Software
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Contents

Introduction	1
Background.	1
Organization of the document	1
Changes in this update	3
In the Excel file.	3
Change to Excel 2010.	3
New worksheets added	3
Changes to DataTableOriginal.	7
Changes in the data	11
Routine data update	11
Changes in ship forces and counts.	11
ISDB overview and basic instructions	13
Accessing the database.	13
Structure of the database file	19
The Document and The Directory worksheets	19
The data tables	19
The pivot tables	35
Appendix	61
Listing of the Visual Basic code for the macro, AgeFuncFlt	61
References	65
Glossary	73
List of figures	75
Distribution list	79

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Introduction

Background

In December 2005, we published the first edition of CNA’s Integrated Ship Database (ISDB) [1]. Our intent then, as now, was to bring together data on naval ships already available from separate sources into a single combined database tool. We wanted to keep this integrated information current. We wanted to make it readily accessible for analysis and reporting. And finally, we wanted to be able to rapidly respond to requests from our sponsor¹, from other CNA research scientists and analysts, and from others in government as well.

Since 2005, we have published 23 quarterly updates [2–24]. They are all available online on the [Integrated Ship Database page](#) of CNA’s website, www.cna.org [25].

In this CNA Interactive Software document, we present our update for the fourth quarter of calendar year 2011.

Organization of the document

In the next section of the paper, we summarize the changes in this update, some of which have resulted in a “new look” for the database file. In the final section, we present an overview of the layout of the file and give some basic instructions on using the database. Because of the “new look,” these instructions should be of value to the experienced user as well as to the beginner.

1. This work is being conducted as part of the *Historic Fleet Employment Database Project*, sponsored by the Deputy Chief of Naval Operations for Operations, Plans and Strategy (N3/N5).

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Changes in this update

In the Excel file

Change to Excel 2010

With this update, we've moved from Microsoft Excel 2003 to Excel 2010 as our development and product software. Because we've introduced macros this time, the file type is now an Excel Macro-Enabled Worksheet (with the associated file name extension of .xlsm).

The .xlsm file type opens in Excel 2010 and Excel 2007, but not in Excel 2003 or earlier versions. We also provide an Excel 97-2003 Worksheet (or .xls) file for users with the older versions of Excel. The newly added macros will function with the earlier versions.

New worksheets added

The Document worksheet

In past updates, we reported changes as CNA Informal Memoranda (CMEs) apart from the Interactive Software product. In this update, we merge the two document types into a single Interactive Software document. We also insert the written document into a new worksheet tab in the Excel database file named *The Document*. Figure 1 shows the new sheet.

The document file and the Excel files are all available on the [Integrated Ship Database page](#) of CNA's web site – www.cna.org [25].

The Directory worksheet

To facilitate easier navigation, we added a directory sheet. Figure 2 displays *The Directory* sheet.

Figure 1. *The Document* worksheet

	A	B	C	D	E	F	G	H	I	J	K	L
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ANALYSIS & SOLUTIONS

The Document / The Directory / DataTableOriginal_Dec11 / DataTableCopy / Basic PivotTable / QuikLook_50

Figure 2. *The Directory* worksheet

A	B	C
1		
2		
3	Database	DataTableOriginal_Dec11
4		
5	Database Worksheet	DataTableCopy
6		
7	Pivot Tables	Basic Pivot Table
8		
9		QuikLook Pivot Table on SECNAVINST 5030.8A Battleforce Ships
10		
11		QuikLook Pivot Table on SECNAVINST 5030.8A Non-Battleforce Ships
12		
13		QuikLook Pivot Table for NVR Ship Battle Forces
14		
15		QuikLook Pivot Table for NVR Local Defense and Miscellaneous Support Forces
16		
17		Ship-Age Pivot Table for Battleforce Ships
18		
19		
20		
21		
22		

The Directory contains hyperlinks to the various worksheets in the file as indicated by the blue, underlined text font. For example, if you clicked on the link to the Ship-Age Pivot Table, you would see that sheet as shown in figure 3.

To navigate back to the directory page, you can just select the link in cell A1 of the Pivot Table.

The *Ship-Age Pivot Table*

We added the *Ship-Age Pivot Table* as a result of a recent request for information on the ages of ships in fleet now, and in the past. In the opening view (Figure 3), the pivot table summarizes the age data for ships currently in the Battleforce.

The data in the pivot table is organized according to the various groups in the Secretary of the Navy's Instruction on ship classification and Battleforce ship counting [26], i.e. Force Category, Ship Category, Ship Classification, etc. The table shows the summary data for

©

Figure 3. Opening view of Ship-Age Pivot Table

A	B	C	D	E	F	G	H	I	J	K		
Return to The Directory												
1	5030.8A Force	5030.8A Ship Category	5030.8A Ship Classification	5030.8A Ship Type	Hull No. (NVR Link)	Ship Name	Commission Date	Data	Count of Age	Average of Age	Max of Age	Min of Age
2												
3												
4	Battleforce	Combatant Ship	Warship/Aircraft Carrier	Conventional Take Off and Landing Aircraft Carriers/Multi-purpose Aircraft Carrier (nuclear-powered)					11	24.0	50.7	3.1
5			Warship/Aircraft Carrier Total						11	24.0	50.7	3.1
6			Warship/Surface Combatant	Cruisers/Guided Missile Cruiser					22	22.1	25.9	18.2
7				Destroyers/Guided Missile Destroyer					61	11.4	21.2	12
8				Frigates/Guided Missile Frigate					26	27.8	30.3	23.0
9				Littoral Combat Ship/Littoral Combat Ship					2	3.2	3.8	2.5
10			Warship/Surface Combatant Total						111	17.2	30.3	12
11			Warship/Submarine	Attack Submarines/Submarine (nuclear-powered)					53	19.9	31.4	0.9
12				Ballistic Missile Submarines/Ballistic Missile Submarine (nuclear-powered)					14	21.6	27.8	14.9
13				Guided Missile Submarines/Guided Missile Submarine (nuclear-powered)					4	29.5	30.7	28.4
14			Warship/Submarine Total						71	20.7	31.4	0.9
15			Warship/Amphibious Warfare	Amphibious Helicopter and Landing Craft Carriers/Amphibious Assault Ship (general purpose)					1	32.2	32.2	32.2
16				Amphibious Helicopter and Landing Craft Carriers/Amphibious Assault Ship (multi-purpose)					8	15.4	23.1	3.2
17				Amphibious Helicopter and Landing Craft Carriers/Amphibious Transport Dock					8	13.6	43.7	0.5
18				Landing Craft Carriers/Dock Landing Ship					12	21.1	27.5	14.3
19			Warship/Amphibious Warfare Total						29	17.8	43.7	0.5
20			Other Combatant/Combat	Underway Replenishment/Dry Cargo and Ammunition Ship					12	3.4	6.0	0.7
21				Underway Replenishment/Fast Combat Support Ship					4	16.9	18.4	14.2
22				Underway Replenishment/Ammunition Ship					1	40.6	40.6	40.6
23				Underway Replenishment/Oiler					15	20.9	25.5	16.1
24			Other Combatant/Combat Total						32	14.5	40.6	0.7
25			Logistics Total									
26			Other Combatant/Fleet	Command/Command Ship					2	41.5	41.5	41.4
27				Material Support/Submarine Tender					2	33.0	33.3	32.7
28				Salvage Ships/Salvage Ships					4	26.3	26.3	25.7
29				Fleet Ocean Tugs/Fleet Ocean Tugs					4	31.6	32.1	30.9
30				Surveillance/Surveillance					5	18.2	20.9	11.7
31			Other Combatant/Fleet Support Total						17	27.7	41.5	11.7
32			Other Combatant/Mine Warfare Type Ships	Mine Countermeasures Ships/Mine Countermeasures Ship					14	20.9	24.8	18.0
33			Other Combatant/Mine Warfare Type Ships Total						14	20.9	24.8	18.0
34			Combatant Ship Total						285	18.9	50.7	0.5
35	Grand Total								285	18.9	50.7	0.5
36												
37												

QuikLook_5030.8A NonBattleforce QuikLook_NVR Ship Battle Forces QuikLook_NVRLocDef&MiscSptForce Ship-Age PivotTable

each group including the number of ships in the group, the average age of the group, and the maximum and minimum ages of units in the group.

Changes to *DataTableOriginal*

DataTableOriginal_Dec11 is the worksheet containing all the data. Here we discuss the changes to this sheet.

The Age field

We added a field to the database for calculating the age of a ship. Figure 4 shows the location of the new field in column AB. It lies in the section with major dates in the life of a ship, i.e. Award Date, Keel Date, Delivery Date, Commission Date, Decommission/Out-of-Action Date, Stricken Date between the Commission and Decommission/Out-of-Action fields.

For ships currently in the fleet. We calculate the age of ships currently in the fleet as the fractional years between the Delivery Date and the current date. We selected the Delivery Date, and not the Commission Date, because of the direction in SECNAVINST 5030.8A:

Battleforce ships are counted as part of the Navy's active inventory effective upon acceptance by the Navy's accepting authority, Commander, Naval Sea Systems Command (COMNAVSEASYS.COM).

Specifically, we used the Excel functions, YEARFRAC() and TODAY(), to determine the age:

Age = YEARFRAC(TODAY(), "Delivery Date", 1)

where "1" specifies the number of significant decimals displayed.

Figure 4. New field for calculating ship age

	Return to The Directory	Today is	Monday	July 16, 2012										
	Ship Name	Abbrev	Prefix	Hull No. (NVR Link)	Award Date	Keel Date	Launch Date	Delivery Date	Commission Date	Age	Decommission DODA Date	Inactivation Date	Striker Date	
273	MARYLAND	MAR	USS	SSBN 728	2/14/1986	4/22/1986	8/07/1991	5/19/1992	6/17/1992	20.1				
274	NEBRASKA	NEB	USS	SSBN 729	5/25/1987	7/6/1987	8/05/1992	6/18/1993	7/16/1993	19.1				
275	RHODE ISLAND	RHO	USS	SSBN 740	5/25/1988	9/15/1988	7/17/1993	6/22/1994	7/18/1994	18.1				
276	MAINE	MME	USS	SSBN 741	10/5/1988	7/15/1990	8/07/1994	6/21/1995	7/23/1995	17.1				
277	WYOMING	WYO	USS	SSBN 742	10/8/1988	8/8/1993	7/05/1995	6/20/1996	7/23/1996	16.1				
278	LOUISIANA	LNA	USS	SSBN 743	12/9/1990	9/2/1992	7/27/1996	8/14/1997	9/21/1997	14.9				
279	OHIO	OHI	USS	SSGN 728	7/25/1974	4/9/1976	4/7/1977	10/28/1981	11/15/1981	30.7				
280	MICHIGAN	MICMCH	USS	SSGN 727	2/20/1975	4/14/1977	4/25/1980	9/29/1982	9/18/1982	29.9				
281	FLORIDA	FLA	USS	SSGN 729	2/20/1975	5/31/1981	10/14/1981	5/17/1983	6/19/1983	29.2				
282	GEORGIA	GEO	USS	SSGN 723	2/20/1976	4/7/1979	10/12/1982	9/17/1984	2/11/1984	28.5				
283	EMORY S. LAND	ESL	USS	AS 39	11/20/1974	3/21/1976	5/4/1977	3/21/1979	7/17/1979	33.4				
284	FRANK CABLE	FCB	USS	AS 40	11/20/1974	3/21/1976	5/4/1978	9/23/1979	10/23/1979	32.8				
285	MOUNT WHITNEY	MVV	MTV	LCC 20	8/22/1966	10/19/1969	10/19/1970	12/16/1970	1/18/1971	41.6				
286	PAUL F. FOSTER	PFF		EOD 964	6/23/1970	2/6/1973	2/22/1974	2/9/1976	2/21/1976	36.4				
287	PREVAIL			K527	2/13/1981	3/31/1985	12/7/1985	3/4/1986	3/19/1986	26.4				
288	SAN DIEGO	SDO SDG	PCU	LPD 22	8/29/2006	5/23/2007	5/7/2010	12/19/2011	1/6/2012	0.6				
289	BOONE	BOD	USS	FEG 28	9/23/1978	3/27/1979	9/6/1980	5/6/1982	5/15/1982	30.2				
290	STEPHEN W. GROVES	SVG	USS	FEG 29	9/23/1978	9/16/1980	4/4/1981	3/5/1982	4/17/1982	30.4				
291	CROMMELIN	CRO	USS	FEG 37	4/27/1979	5/20/1980	7/2/1981	6/9/1983	6/19/1983	29.1				
292	CURTS	CUR	USS	FEG 38	4/27/1979	7/19/1981	3/6/1982	9/21/1983	10/6/1983	28.9				
293	MCCLOSKEY	MCLMCC	USS	FEG 41	4/27/1979	10/24/1981	9/18/1982	11/4/1983	12/10/1983	28.7				
294	KLAIRING	KLK	USS	FEG 42	4/27/1979	2/8/1982	9/18/1982	8/5/1983	8/20/1983	28.9				
295	DE VERT	DEV	USS	FEG 45	4/28/1980	6/9/1982	12/8/1982	11/10/1983	11/19/1983	28.7				
296	ROBERT G. BRADLEY	FGB	USS	FEG 49	4/29/1980	12/28/1982	8/13/1983	6/22/1984	6/30/1984	28.1				
297	SIMPSON	SIM	USS	FEG 56	3/2/1982	2/27/1984	8/19/1984	9/10/1985	9/21/1985	26.8				
298	RODNEY M. DAVIS	FMD	USS	FEG 60	10/28/1982	2/8/1985	9/19/1985	4/20/1987	5/19/1987	25.2				
299	SHAWNEE	SHS		LSG 5	9/10/1941	9/17/1944	5/24/1944	7/24/1944	8/8/1944	68.0				
300	PHILADELPHIA	PHI		SSN 630	9/9/1971	8/2/1972	10/19/1972	6/10/1977	6/25/1977	34.1	6/29/2011			
301	MEMPHIS	MEM		SSN 631	2/4/1971	6/22/1973	4/3/1976	12/14/1977	12/17/1977	33.3	4/7/2011			
302	SHASTA	SHA		AE 33	3/6/1968	10/10/1968	4/3/1971	24/1972	2/28/1972	39.2	4/29/2011			
303	NASSAU	NAS		LHA 4	10/6/1970	8/6/1973	12/9/1978	6/25/1979	7/23/1979	31.8	3/30/2011			
304	CLEVELAND	CLE		LPD 7	2/25/1963	10/30/1964	5/7/1966	4/21/1967	4/22/1967	44.5	9/30/2011			
305	DUBUQUE	DUB		LPD 8	2/25/1963	2/25/1965	8/6/1966	8/21/1967	9/19/1967	43.9	6/20/2011			
306	LOS ANGELES	LAX		SSN 688	9/9/1971	9/17/1972	4/6/1974	10/21/1976	10/13/1976	34.3	2/4/2011	2/9/2010	24/2011	
307	KITTY HAWK	KHK		CV 63	10/9/1955	12/27/1956	5/29/1960	4/19/1961	4/23/1961	48.1	5/12/2009	5/12/2009		
308	TARAWA	TAR		CV 64	5/9/1963	10/15/1971	12/17/1973	5/14/1976	5/23/1976	32.9	3/19/2009	3/19/2009		
309	CHARLESTON	CHA		CV 65	6/17/1965	12/5/1966	12/21/1967	12/5/1968	12/14/1968	23.4				
310	DURHAM	DAH		CV 66	6/17/1965	7/10/1967	3/23/1968	4/19/1969	5/24/1969	24.9				
311	MOBILE	DAE		CV 67	6/17/1965	7/17/1968	3/19/1969	5/23/1969	5/23/1969	24.4				
312	ST. LOUIS	DAE		CV 68	6/17/1965	4/21/1968	14/1969	10/1969	11/22/1969	23.1	10/21/1992			
313	EL PASO	DAE		CV 69	8/22/1966	10/22/1968	5/17/1969	12/20/1969	1/7/1970	24.3	4/21/1994			
314	JUNEAU	JUN		LPD 8	5/23/1965	2/21/1966	7/7/1966	7/21/1966	7/21/1966	39.3	10/31/2008			
315	NAASHVILLE	NSH		LPD 9	5/15/1964	3/14/1966	8/17/1967	12/26/1967	1/14/1967	39.8	9/30/2009	9/30/2009		
316	MOUNT BAKER	MTB		AE 34	3/19/1968	10/15/1970	7/4/1972	7/22/1972	7/22/1972	24.4	12/9/1996			
317	MICHAUD	ATE 70		SS 70	9/27/1978	5/17/1980	10/16/1980	N/A	N/A	N/A				
318	MELVILLE			AGOS 13	9/30/1966	7/10/1967	7/10/1968	8/22/1968	8/22/1968	N/A				
319	KAOHHSI			AGOS 15	9/30/1966	9/15/1967	9/27/1968	10/4/1970	10/4/1970	N/A				
320	THOMAS G. THOMPSON			AGOS 43	6/10/1968	3/29/1969	7/27/1969	7/8/1970	7/8/1970	N/A				
321	ROGER REVELLE			AGOS 44	9/10/1968	3/10/1969	4/20/1969	6/17/1970	6/17/1970	N/A				
322	ATLANTIS			AGOS 45	2/10/1969	3/10/1969	4/19/1969	2/19/1970	2/25/1970	N/A				
323	MOLOKAI			AGOS 46	10/27/1969	10/27/1969	10/17/2001	9/3/2002	9/3/2002	N/A				
324	CASPER YOUNG			DD 732	6/14/1942	10/14/1943	9/12/1943	12/19/1943	12/19/1943	3.3	4/23/1960			
325	THIRDLAND			LPH 18	12/10/1962	6/8/1964	7/25/1965	7/20/1966	8/6/1966	29.2	9/15/1995	9/15/1995		
326	HELLAR			AGS 24	10/21/1962	7/29/1962	10/19/1963	9/19/1963	9/19/1963	N/A				
327	DOVA			BB 33	6/10/1945	6/27/1945	8/27/1945	3/22/1945	3/22/1945	47.6	10/23/2006			
328	CHOCORUA			CG 44	9/2/1968	9/2/1968	4/2/1969	12/17/1969	12/17/1969	N/A				
329	TRANSIER			CG 45	2/19/1954	2/19/1954	4/21/1955	8/19/1955	8/19/1955	35.9	7/10/1993	7/10/1993		
330	JOHN F. KENNEDY			JFK	4/20/1954	10/2/1954	5/27/1957	8/19/1958	8/19/1958	38.9	8/12/2009	8/12/2009		
331	ELSON			CG 46	2/27/1955	12/17/1955	14/1956	10/31/1956	10/31/1956	30.1	12/14/1988	12/14/1988		
332	CHARLES F. ADAMS			CG 47	2/28/1955	6/8/1955	9/8/1955	9/19/1956	9/19/1956	30.9	9/23/1992			
333	SEA SHADOW			CG 48	10/23/1962	N/A	N/A	N/A	N/A	N/A				
334	CANYON			CG 49	9/8/1965	6/28/1966	7/22/1967	7/22/1969	7/22/1969	8.5	9/19/1977	9/19/1977		
335	EARL			CG 50	12/25/1962	3/19/1964	10/19/1965	8/19/1966	8/19/1966	26.2	10/5/1982	10/5/1982		
336	MAULITUS			CG 51	8/21/1963	8/21/1962	9/21/1964	4/23/1965	9/23/1965	34.3	3/21/2000	3/21/2000		
337	ALALIKA			AE 26	3/20/1965	3/20/1966	8/19/1966	8/19/1967	8/19/1967	12.3	10/19/2008	10/19/2008		
338	CONCORD			AE 28	12/8/1964	12/24/1966	12/7/1968	10/21/1968	10/21/1968	23.4	10/19/2004	10/19/2004		

We also added the current date to *DataTableOriginal_Dec 11* in cell D1 and the current day of the week in cell C1,² as shown in figure 5.

For ships no longer in the fleet. We calculated ship age for these ships based on available date information for each ship. Our preferred age calculation was for the time between the Delivery Date and the Decommission Date. If the Delivery Date was missing, we used the Commission Date instead. And if the Decommission Date was missing, we used the Inactivation Date.

For ships delivered or commissioned before 1900. Unfortunately, YEARFRAC() only works for dates on or after January 1, 1900. Quite a few ships in the database have Delivery and/or Commission Dates before 1900. For these cases, we modified a macro function available online from Microsoft Support named AgeFunc [27]. We named our modified version, AgeFuncFlt.

AgeFunc calculates the integer number of years between two dates. For our purposes, we wanted a floating point decimal result. You can find a listing of AgeFuncFlt in the Appendix.³

-
2. To determine the day of the week, we applied Excel's WEEKDAY() function to convert the date to the corresponding numerical day of the week. We then used Excel's VLOOKUP() function to determine the name of the day from the lookup table at the bottom of the DataTable-Original sheet :

A	B
3189	
3190	Numeric Day of Week
3191	1 Sunday
3192	2 Monday
3193	3 Tuesday
3194	4 Wednesday
3195	5 Thursday
3196	6 Friday
3197	7 Saturday

3. AgeFunc and AgeFuncFlt can be found as Modules 1 and 2, respectively, in the VBA project for this workbook. You can open the Microsoft Visual Basic for Applications window by clicking on the Visual Basic button on the Developer Tab or by using the keyboard shortcut: Alt+F11.

Figure 5. Day and date display in *DataTableOriginal_Dec11*

	A	B	C	D	E	F
1	Return to The Directory	Today is	Thursday	July 5, 2012	Hull No. (NVR Link)	
2	Ship Name	Abbrev	Prefiz		NVR Type	UIC
3	NO NAME			AGS 68	AGS Surveying Ship	10544
4	NO NAME			DDG 114	DDG Guided Missile Destroyer	Authorized, for US Navy construction
5	NO NAME			DDG 115	DDG Guided Missile Destroyer	Authorized, for US Navy construction
6	MICHAEL MONSOOR			DDG 1001	DDG Guided Missile Destroyer	23189
7	MILWAUKEE			LCS 5	LCS Littoral Combat Ship	20134
8	JACKSON			LCS 6	LCS Littoral Combat Ship	20135
9	DETROIT			LCS 7	LCS Littoral Combat Ship	20136
10	MONTGOMERY			LCS 8	LCS Littoral Combat Ship	20137
11	JOHN P MURTHA			LPD 26	LPD Amphibious Transport Dock	23182
12	NORTH DAKOTA			SSN 784	SSN Submarine (Nuclear-Powered)	20037
13	JOHN WARNER			SSN 785	SSN Submarine (Nuclear-Powered)	20038
14	NO NAME			SSN 786	SSN Submarine (Nuclear-Powered)	20181
15	NO NAME			SSN 787	SSN Submarine (Nuclear-Powered)	20182
16	NO NAME			SSN 788	SSN Submarine (Nuclear-Powered)	27150
17	NO NAME			SSN 789	SSN Submarine (Nuclear-Powered)	27151
18	NO NAME			SSN 790	SSN Submarine (Nuclear-Powered)	27152
19	NO NAME			SSN 791	SSN Submarine (Nuclear-Powered)	27153
20	FORTITUDE			JHSV 3	JHSV Joint High Speed Vessel	23786
21	FALL RIVER			JHSV 4	JHSV Joint High Speed Vessel	29787
22	RESOLUTE			JHSV 5	JHSV Joint High Speed Vessel	29788
23	NO NAME			JHSV 6	JHSV Joint High Speed Vessel	29789
24	COURAGEOUS			JHSV 7	JHSV Joint High Speed Vessel	29790
25	NO NAME			LPD 27	LPD Amphibious Transport Dock	3277A
26	HOWARD O. LORENZEN			AGM 25	AGM Missile Range Instrumentation Ship	10546
27	MEDGAR EVERS	MEV		AKE 13	AKE Dry Cargo and Ammunition Ship	29002
28	CESAR CHAVEZ			AKE 14	AKE Dry Cargo and Ammunition Ship	29003
29	GERALD R. FORD			CVN 78	CVN Multi-Purpose Aircraft Carrier (Nuclear-Propulsion)	23173
30	MICHAEL MURPHY			DDG 1002	DDG Guided Missile Destroyer	55688
31	ZUMWALT			DDG 1000	DDG Guided Missile Destroyer	20121
32	FORT WORTH			LCS 3	LCS Littoral Combat Ship	20130
33	CORONADO			LCS 4	LCS Littoral Combat Ship	20131
34	AMERICA			LHA 8	LHA Amphibious Assault Ship (General Purpose)	20103
35	ANCHORAGE	ANC		LPD 23	LPD Amphibious Transport Dock	3015A
36	ARLINGTON	APL		LPD 24	LPD Amphibious Transport Dock	23180
37	SOMERSET	SOM		LPD 25	LPD Amphibious Transport Dock	23181
38	MISSISSIPPI	MIS		SSN 782	SSN Submarine (Nuclear-Powered)	20080
39	MINNESOTA	MIN		SSN 783	SSN Submarine (Nuclear-Powered)	20034
40	CHOCATOW COUNTY			JHSV 2	JHSV Joint High Speed Vessel	29785
41	SPEARHEAD			JHSV 1	JHSV Joint High Speed Vessel	29784
42	CONSTITUTION		USS	"Old Ironsides"	Other	01024
43	PUEBLO		USS	AGER 2	AGER Environmental Research Ship	20256
44	BUNKER HILL	BKH	USS	CG 52	CG Guided Missile Cruiser	21345
45	MOBILE BAY	MOB	USS	CG 53	CG Guided Missile Cruiser	21346
46	ANTETAM	ANT	USS	CG 54	CG Guided Missile Cruiser	21387
47	LEYTE GULF	LTG	USS	CG 55	CG Guided Missile Cruiser	21388
48	SAN JACINTO	SJA	USS	CG 56	CG Guided Missile Cruiser	21389
49	LAKE CHAMPLAIN	LKC	USS	CG 57	CG Guided Missile Cruiser	21428

Comment information moved

In the past, we inserted amplifying information in cell comments. To better manage and display these comments, we moved them into the Additional Comments, References field in column AF.

Changes in the data

Routine data update

Our routine changes in this update aligned the ISDB with the Naval Vessel Register (NVR) [28 and 29], the Military Sealift Command's (MSC's) Ship Inventory [30 and 31], and the Maritime Administration's (MARAD's) National Defense Reserve Fleet (NDRF) Inventory [32 and 33] as of Dec. 31, 2011.

Changes in ship forces and counts

Our counts of ships in the Navy's 5030.8A Battleforce and the NVR Ship Battle Forces at the end of the fourth quarter of 2011 are both 285 ships, or one more than at the end of the previous quarter. The Navy took delivery of PCU San Diego (LPD 22) on Dec. 19, 2011 [34]. These counts agree with the count of 285 Battle Force Ships reported in CNO OPNOTES [35, 36].

As there were no changes in the Navy's 5030.8A Non-Battleforce during the quarter, our count remained at 55 ships. We validated this count against the numbers in the most recent Ship Annual Supplemental Data Table (SASDT) [37].

Similarly, the count of the NVR Local Defense & Miscellaneous Support Forces at the end of the quarter remained at 113 ships. Since this count is no longer published independently, we could not validate our count. Nevertheless, if we deduct the ships not included in the 5030.8A Non-Battleforce, i.e.,

- 48 ships in the MARAD-titled Ready Reserve Fleet;
- Three AOT Transport Oilers no longer regarded as RRF units by MARAD, but still counted by NVR among its Strategic Sealift Forces, and
- Seven ships chartered by MSC's Prepositioning and Sealift Programs,

the remainder of 55 ships agrees with the validated 5030.8A Non-Battleforce count.

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ISDB overview and basic instructions

In this section, we present an overview of the Integrated Ship Database. We tell you where to find the database online and how to access it there. We show how the database file is organized into data tables and pivot tables. And we show how to use the various features of Microsoft Excel 2010 to view and analyze the data.

Accessing the database

You can access the ISDB via CNA's web site at www.cna.org (figure 6). If you go to "Solution Centers" page (figure 7) and then to the page of the "Operations & Tactics Analysis" Division of CNA's Center for Naval Analyses (figure 8), you will see the link to the Integrated Ship Database page (figure 9). The specific URL is www.cna.org/centers/operations-tactics/ship-database.

The ISDB page presents links to the database updates for the current year. It also has a link to the Database Archive where this update is posted. Figure 10 is a view of the Archive page.

Under the 2011 updates, you can see two links for the December 2011 files: one for the Microsoft Excel Macro-Enabled Worksheet version of this update, ([ISDB2011-12.xls](#)); and one for the Microsoft Excel 97-2003 Worksheet version, ([ISDB2011-12.xls](#)).

With the Macro-Enabled version, you can use either Microsoft Excel 2007 or Excel 2010 in their respective full Excel modes. Excel 2003 or earlier versions will not be able to open [ISDB2011-12.xls](#).

Excel 2003 will open the 97-2003 Worksheet version. Excel 2007 and Excel 2010 can open [ISDB2011-12.xls](#), but only in Compatibility Mode. Some features will not work in Compatibility Mode. If you have the 2007 or 2010 Excel versions, we recommend you use the Macro-Enabled Worksheet file.

Figure 6. The CNA web site (www.cna.org)

The screenshot shows the homepage of the CNA website. At the top left is the CNA logo with the tagline "ANALYSIS & SOLUTIONS" and a "70th Anniversary" banner. Top navigation links include Home, About Us, Our Research, Solution Centers, News & Information, and Careers. A search bar and contact link are also at the top right. The main banner features the text "Data Integrity" over an image of server racks. To the right is a "Did You Know?" box about CNA analysts' work during World War II. Below the banner are sections for "FEATURED ARTICLES, REPORTS AND VIDEOS" and "WHAT'S NEW AT CNA". The "FEATURED ARTICLES" section includes a call for submissions for the "CNA Award for Operational Analysis" by June 29, 2012, with a deadline graphic. The "WHAT'S NEW AT CNA" section lists news items from May 30, 2012, including the election of James Stewart as an Honorary Fellow of the Academy of Experimental Criminology. The "EMPLOYEE SPOTLIGHT" section features three CNA staff members. The footer contains links for information, social media, and site navigation.

CNA ANALYSIS & SOLUTIONS **70th Anniversary**

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Home **About Us** **Our Research** **Solution Centers** **News & Information** **Careers**

Data Integrity

We are committed to getting the best data possible. We source it, work it, clean it, validate it, and define its limitations to ensure credibility and absolute data integrity.

Did You Know?

CNA analysts pioneered the field of operations research through their groundbreaking work with the Navy during World War II.

FEATURED ARTICLES, REPORTS AND VIDEOS

CNA Award for Operational Analysis Deadline

The deadline for submissions for the **CNA Award for Operational Analysis** is **June 29, 2012**. Open to non-CNA affiliated researchers and analysts, this competitive award and a \$10,000 cash prize will be presented to the individual or team whose submitted work is judged as having provided the most creative, empirically based support to a real-world decision, or solution to a real-world problem.

Showing 1 | 2 | 3 | 4 | 5

EMPLOYEE SPOTLIGHT

Our strength is in our staff. Meet the men and women who are CNA.

» View our featured employees

WHAT'S NEW AT CNA

May 30, 2012
Academy of Experimental Criminology (AEC) has elected James Stewart, CNA Director of Public Safety, as an AEC Honorary Fellow. The award will be presented at the November 2012 meeting of the American Society of Criminology.

May 30, 2012
Council on Foreign Relations posts video recording of the April 30th panel discussion "Korea Update" that includes CNA Senior Fellow, RADM Michael McDevitt (Ret.)

May 30, 2012
The National Bureau of Asian Research Alumni Network features CNA research analyst Nilanthi Samaranayake and her *Asia Times* article, "No cause for panic over the Maldives" in their monthly email update.

May 27, 2012
Bloggers for *Network World* and *Global Pest* pick up CNA analyst Dr. William McCant's comments in the May 24th *Christian Science Monitor*

Showing 1 | 2 | 3 | 4 | 5 » View All News

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Figure 7. CNA's Solution Centers

The screenshot shows the CNA Analysis & Solutions website. At the top, there is a navigation bar with links for Home, About Us, Our Research, Solution Centers (which is the active page), News & Information, and Careers. Below the navigation bar, there are three sub-navigation links: CNA's Center for Naval Analyses, CNA's Institute for Public Research, and CNA's Military Advisory Board. The main content area features a blue header bar with the text "Solution Centers". Below this, the heading "How We're Organized" is displayed in green. The page is divided into two main sections: "CNA's Center for Naval Analyses" on the left and "CNA's Institute for Public Research" on the right. The CNA section contains eight items, each with a small image and a title: Advanced Technology & Systems Analysis, China Studies, Marine Corps Division, Operations & Tactics Analysis, Operations Evaluation Group, Resource Analysis, and Strategic Studies. The CIPR section also contains eight items, each with a small image and a title: Air Traffic Management, Education, Health Research & Policy, and Safety & Security. At the bottom of the page, there is a section titled "CNA's Military Advisory Board" with four bullet points: National Security and the Threat of Climate Change, Powering America's Defense: Energy and the Risks to National Security, Powering America's Economy: Energy Innovation at the Crossroads of National Security Challenges, and Ensuring America's Freedom of Movement: A National Security Imperative to Reduce U.S. Oil Dependence.

Figure 8. Operations & Tactics Analysis web page

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Home > Solution Centers > CNA's Center for Naval Analyses >

CNA Operations & Tactics Analysis



CNA Operations & Tactics Analysis: conducting ongoing Washington-based operational studies of systems, resources, and integrations.

CNA Operations and Tactics Analysis explores such issues as whether operations systems should be upgraded or replaced, opportunities for system improvements, and efficient and effective use of shared fiscal resources. OTA analysts also focus on issues relating to integration between the Navy and Marine Corps.

OTA also works on near-term problems facing decision makers in Washington, including efforts which have focused on the implications of U.S. operations in Iraq for future naval forces.

CNA Operations and Tactics Analysis Teams

- › Combat Systems
- › Operational Policy
- › Operational Training
- › Tactical Naval Issues
- › Warfare Capabilities & Employment

Areas of Focus

- › Maritime domain awareness
- › Combat system interoperability
- › Precision strike warfare
- › Consequence management
- › Counter-IED and counter-mining
- › Aircrew training
- › Engagement and humanitarian
- › Assistance operations

Figure 9. ISDB web page

The screenshot shows the homepage of CNA's Center for Naval Analyses. At the top, there is a logo for 'CNA ANALYSIS & SOLUTIONS' with a '70th Anniversary' graphic. A search bar with a 'Search Site' button and a 'Go' button is located in the top right. The main navigation menu includes 'Home', 'About Us', 'Our Research', 'Solution Centers' (which is highlighted in a dark grey box), 'News & Information', and 'Careers'. Below the menu, a sub-navigation bar shows 'CNA's Center for Naval Analyses', 'CNA's Institute for Public Research', and 'CNA's Military Advisory Board'. A breadcrumb trail at the top indicates the current page is 'Home > Solution Centers > CNA's Center for Naval Analyses > Operations & Tactics Analysis'. The main content area features a blue header bar with the text 'CNA's Integrated Ship Database'. Below this, a paragraph explains that the database is compiled from multiple authorized U.S. Navy and U.S. Government sources and contains information on particular ships throughout the fleet's history. It also provides links to 'Basic Layout and Instructions' and 'User's Manual'. Another section, 'CNA's Integrated Ship Database 2012', lists two Excel files: 'ISODB2012-03.xlsxm' (Excel Macro-Enabled Worksheet) and 'ISODB2012-03.xls' (Excel 97-2003 Worksheet). A 'Database Archive' section links to 'database updates' from 2005-2011. A note at the bottom right states '(This page was last updated on August 9, 2012)'. The left sidebar contains a navigation tree under 'CNA's Center for Naval Analyses' with categories like 'Advanced Technology & Systems Analysis', 'China Studies', 'Marine Corps Division', 'Operations & Tactics Analysis' (which has 'Integrated Ship Database' and 'Selected Studies' as sub-options), 'Operations Evaluation Group', 'Resource Analysis', and 'Strategic Studies'.

Figure 10. ISDB Database Archive web page

CNA's Integrated Ship Database

CNA's Integrated Ship Database, compiled from multiple, authorized U.S. Navy and U.S. Government sources, contains information on particular ships throughout the fleet's history. A cover memo outlining the changes that appear in each update accompanies each database posting.

Database Archive

(This page was last updated on August 9, 2012)

2011

- › December 2011
 - ISDB2011-12.xlsx  Excel Macro-Enabled Worksheet (For Excel 2007 and 2010)
 - ISDB2011-12.xls  Excel 97-2003 Worksheet (For Excel 2003, Excel 2007 in Compatibility Mode, and Excel 2010 in Compatibility Mode)
- › September 2011  and cover memo 
- › June 2011  and cover memo 
- › March 2011  and cover memo 

2010

- › December 2010  and cover memo 
- › September 2010  and cover memo 
- › June 2010  and cover memo 
- › March 2010  and cover memo 

2009

- › December 2009  and cover memo 
- › September 2009  and cover memo 
- › June 2009  and cover memo 
- › March 2009  and cover memo 

2008

- › December 2008  and cover memo 
- › September 2008  and cover memo 
- › June 2008  and cover memo 
- › March 2008  and cover memo 

2007

- › December 2007  and cover memo 
- › September 2007  and cover memo 
- › June 2007  and cover memo 
- › March 2007  and cover memo 

2006

- › December 2006  and cover memo 
- › September 2006  and cover memo 
- › June 2006  and cover memo 
- › March 2006  and cover memo 

2005

- › September 2005 

Data Sources

- › **Naval Vessel Register**
Ray Curles 757.396.0913
- › **U.S. Navy Fact File**
Marie Tillery 202.433.0572
- › **Property Management and Archive Record System (PMARS)**
- › **Military Sealift Command Ship Inventory**
Tim O'Connell 202.685.5364
- › **Naval History and Heritage Command**
Dan Jones 202.433.6801

Structure of the database file

When you first open the database file, you will see the cover of this document as in figure 1. It is the first worksheet, titled *The Document*. At the bottom of figure 1, you can see six of the ten worksheet tabs in the data file. The complete list includes:

- *The Document*
- *The Directory*
- Two data tables
 - *DataTableOriginal_Dec11*
 - *DataTableCopy*
- Six pivot tables
 - *Basic PivotTable*
 - *QuikLook_5030.8A Battleforce*
 - *QuikLook_5030.8A NonBattleforce*
 - *QuikLook_NVR Ship Battle Forces*
 - *QuikLook_NVRLocDef&MiscSptForces*
 - *Ship-Age PivotTable*

***The Document* and *The Directory* worksheets**

We introduced *The Document* and *The Directory* worksheets in the previous section. To avoid redundancy, we refer you to that discussion.

The data tables

DataTableOriginal_Dec11

Fields and records. Figure 11 shows the upper left corner of *DataTableOriginal_Dec11*. This sheet contains the entire ship database. It is a simple, traditional “flat file” type of database consisting of records (the rows) and fields (the columns).

Figure 11. The database — *DataTableOriginal_Dec11*

	A	B	C	D	E	F	G
1	Return to The Directory	Today is	Thursday	July 5, 2012			
2	Ship Name	Abbrev	Prefix	Hull No. (NVR Link)	NVR Type	UIC	Status
3	NO NAME			AGS 66	AGS Surveying Ship	10544	Authorized, for US Navy construction
4	NO NAME			DDG 114	DDG Guided Missile Destroyer		Authorized, for US Navy construction
5	NO NAME			DDG 115	DDG Guided Missile Destroyer		Authorized, for US Navy construction
6	MICHAEL MONSOOR			DDG 1001	DDG Guided Missile Destroyer	23189	Authorized, for US Navy construction
7	MILWAUKEE			LCS 5	LCS Littoral Combat Ship	20134	Authorized, for US Navy construction
8	JACKSON			LCS 6	LCS Littoral Combat Ship	20135	Authorized, for US Navy construction
9	DETROIT			LCS 7	LCS Littoral Combat Ship	20136	Authorized, for US Navy construction
10	MONTGOMERY			LCS 8	LCS Littoral Combat Ship	20137	Authorized, for US Navy construction
11	JOHN P MURTHA			LPD 26	LPD Amphibious Transport Dock	23182	Authorized, for US Navy construction
12	NORTH DAKOTA			SSN 784	SSN Submarine (Nuclear-Powered)	20037	Authorized, for US Navy construction
13	JOHN WARNER			SSN 785	SSN Submarine (Nuclear-Powered)	20038	Authorized, for US Navy construction
14	NO NAME			SSN 786	SSN Submarine (Nuclear-Powered)	20181	Authorized, for US Navy construction
15	NO NAME			SSN 787	SSN Submarine (Nuclear-Powered)	20182	Authorized, for US Navy construction
16	NO NAME			SSN 788	SSN Submarine (Nuclear-Powered)	27150	Authorized, for US Navy construction
17	NO NAME			SSN 789	SSN Submarine (Nuclear-Powered)	27151	Authorized, for US Navy construction
18	NO NAME			SSN 790	SSN Submarine (Nuclear-Powered)	27152	Authorized, for US Navy construction
19	NO NAME			SSN 791	SSN Submarine (Nuclear-Powered)	27153	Authorized, for US Navy construction
20	FORTITUDE			JHSV 3	JHSV Joint High Speed Vessel	29786	Authorized, for US Navy construction
21	FALL RIVER			JHSV 4	JHSV Joint High Speed Vessel	29787	Authorized, for US Navy construction
22	RESOLUTE			JHSV 5	JHSV Joint High Speed Vessel	29788	Authorized, for US Navy construction
23	NO NAME			JHSV 6	JHSV Joint High Speed Vessel	29789	Authorized, for construction
24	COURAGEOUS			JHSV 7	JHSV Joint High Speed Vessel	29790	Authorized, for construction
25	NO NAME			LPD 27	LPD Amphibious Transport Dock	32774	Hull number assigned, authorized to be built, construction contract has not been awarded
26	HOWARD O LORENZEN			AGM 25	AGM Missile Range Instrumentation Ship	10546	Under construction in US by Navy, unassigned to fleet
27	MEDGAR EVERS	MEV		AKE 13	AKE Dry Cargo and Ammunition Ship	23902	Under construction in US by Navy, unassigned to fleet
28	CESAR CHAVEZ			AKS 14	AKS Dry Cargo and Ammunition Ship	23903	Under construction in US by Navy, unassigned to fleet
29	GERALD R FORD			CVN 78	CVN Multi-Purpose Aircraft Carrier (Nuclear-Propulsion)	23173	Under construction in US by Navy, unassigned to fleet
30	MICHAEL MURPHY			DDG 102	DDG Guided Missile Destroyer	55688	Under construction in US by Navy, unassigned to fleet
31	ZUMWALT			DDG 1000	DDG Guided Missile Destroyer	20121	Under construction in US by Navy, unassigned to fleet
32	FORT WORTH			LCS 3	LCS Littoral Combat Ship	20130	Under construction in US by Navy, unassigned to fleet
33	CORONADO			LCS 4	LCS Littoral Combat Ship	20131	Under construction in US by Navy, unassigned to fleet
34	AMERICA			LHA 6	LHA Amphibious Assault Ship (General Purpose)	20103	Under construction in US by Navy, unassigned to fleet
35	ANCHORAGE	ANC		LPD 23	LPD Amphibious Transport Dock	30154	Under construction in US by Navy, unassigned to fleet
36	ARLINGTON	ARL		LPD 24	LPD Amphibious Transport Dock	23180	Under construction in US by Navy, unassigned to fleet
37	SOMERSET	SOM		LPD 25	LPD Amphibious Transport Dock	23181	Under construction in US by Navy, unassigned to fleet
38	MISSISSIPPI	MIS		SSN 782	SSN Submarine (Nuclear-Powered)	20080	Under construction in US by Navy, unassigned to fleet
39	MINNESOTA	MIN		SSN 783	SSN Submarine (Nuclear-Powered)	20034	Under construction in US by Navy, unassigned to fleet
40	CHOCATW COUNTY			JHSV 2	JHSV Joint High Speed Vessel	29785	Under construction in US by Navy, unassigned to fleet
41	SPEARHEAD			JHSV 1	JHSV Joint High Speed Vessel	29784	Under construction in US for US Army, NAVSEA is the contracting activity
42	CONSTITUTION		USS	"Old Ironsides"	Other	0024	Active, in commission
43	PUEBLO		USS	AGER 2	AGER Environmental Research Ship	20256	Active, in commission
44	BUNKER HILL	BKH	USS	CG 52	CG Guided Missile Cruiser	21345	Active, in commission
45	MOBILE BAY	MOB	USS	CG 53	CG Guided Missile Cruiser	21346	Active, in commission
46	ANTIETAM	ANT	USS	CG 54	CG Guided Missile Cruiser	21387	Active, in commission
47	LEYTE GULF	LTG	USS	CG 55	CG Guided Missile Cruiser	21388	Active, in commission
48	SAN JACINTO	SJA	USS	CG 56	CG Guided Missile Cruiser	21389	Active, in commission
49	LAKE CHAMPLAIN	LKC	USS	CG 57	CG Guided Missile Cruiser	21428	Active, in commission
50	PHILIPPINE SEA	PSE	USS	CG 58	CG Guided Missile Cruiser	21429	Active, in commission
51	PRINCETON	PRN	USS	CG 59	CG Guided Missile Cruiser	21447	Active, in commission
52	NORMANDY	NOR, NMD	USS	CG 60	CG Guided Missile Cruiser	21449	Active, in commission
53	MONTEREY	MTY	USS	CG 61	CG Guided Missile Cruiser	21450	Active, in commission
54	CHANCELLORSVILLE	CHV	USS	CG 62	CG Guided Missile Cruiser	21451	Active, in commission
55	COFFENS	COW	USS	CG 63	CG Guided Missile Cruiser	21623	Active, in commission
56	GETTYSBURG	GTB, GET	USS	CG 64	CG Guided Missile Cruiser	21624	Active, in commission
57	CHOISIN	CHO	USS	CG 65	CG Guided Missile Cruiser	21625	Active, in commission

The Directory DataTableOriginal_Dec11 DataTableCopy Basic PivotTable QuikLook_5030.8A Battleforce QuikLook_5030.8A NonBattleforce QuikLook_NVR Ship Battle Forces

Ready

70%

A record or row contains information about a particular ship unit. The specific information about the unit resides in the fields or columns. The fields in *DataTableOriginal_Dec11* are:

- Column A: Ship Name
- Column B: Abbreviation
- Column C: Prefix
- Column D: [Hull No. \(NVR Link\)](#)⁴
The links in this field are to the individual ship pages in the NVR. For example, figure 12 is the linked page for USS *George H W Bush* (CVN 77).
- Column E: NVR Type
- Column F: UIC
(i.e., Unit Identification Code)
- Column G: Status
- Column H: Date Status Changed
- Column I: [Class \(Navy Fact File Links\)](#)
These links go to the descriptive ship type and class information of the Navy Fact File on the Official Website of the Navy, *America's Navy*. Figure 13 shows the Fact File page for aircraft carriers.
- Column J: [NVR Force](#)
Links to the various Forces reported in the NVR, i.e., [Battle Forces](#), [Support Forces](#), [Auxiliary Ships](#), [Strategic Sealift Forces](#), [Mobilization Forces](#), [Category A Assets](#), and [Mobilization Forces, Category B Assets](#).
- Column K: 5030.8A Force
- Column L: 5030.8A Ship Category
- Column M: 5030.8A Ship Classification
- Column N: 5030.8A Ship Type

4. In this list, we highlight fields containing hypertext links in the same font style as the cells in the database, i.e., by [blue, underlined text](#).

Figure 12. NVR page for USS George H W Bush (CVN 77) [38]




N·V·R
NAVAL VESSEL REGISTER

This information resides on a DOD interest computer.
Important [conditions, restrictions, and disclaimers](#) apply.

USS GEORGE H W BUSH (CVN 77)

MULTI-PURPOSE AIRCRAFT CARRIER (NUCLEAR-PROPULSION)

Class:	CVN 68	UIC:	23170
Status:	Active, in commission	Fleet:	Atlantic
Date status changed:	05/11/2009	Homeport:	NORFOLK, VA
Maintenance Category:		Berth:	
Force:	Battle Force	MARAD Type:	
Builder:	NEWPORT NEWS/NEWPT	Delivery Date:	05/11/2009
Award Date:	01/26/2001	Age (since delivery):	3.1 years
Keel Date:	05/19/2003	Commission Date:	01/10/2009
Launch Date:	10/09/2006	Inactivation Date:	
Age (since launch)	5.7 years	Decommission Date:	
		Years from Commission to Decommission:	
		Stricken Date:	
Overall Length:	1092 ft	Waterline Length:	1040 ft
Extreme Beam:	252 ft	Waterline Beam:	134 ft
Maximum Navigational Draft:	37 ft	Draft Limit:	41 ft
Light Displacement:	77607 tons	Full Displacement:	98235 tons
Dead Weight:	20628 tons		
Hull Material:	Steel hull, steel superstructure.		
Number of Propellers:	4		
Number of Waterjets:			
Propulsion Type:	Steam Turbine (Nuclear)		
Accommodations:	Officers: 200	Enlisted: 3100	
Custodian:	US NAVY	Ships Program Manager:	312
Planning Yard:	Norfolk NSY, Portsmouth, VA	Nuclear Planning Yard:	Newport News Shipbuilding and Drydock Co., Newport News, VA
<i>Last updated 02/16/2011</i>			
To learn more about this type of ship visit:			
			
RELATED LINKS DOD DISCLAIMER SHIPS SERVICE CRAFT HOME			
Related Links	DoD Disclaimer	Ships	Service Craft
<hr/>		Home	
		NAVSHIPSO NAVSEA Shipbuilding Support Office Norfolk Naval Shipyard Code 284, Bldg 705 Portsmouth, VA 23708-5000 (757) 967-3484 (757) 967-2957 (FAX)	
		POWERED BY 	

Figure 13. Navy Fact File page for aircraft carriers [39]

The screenshot shows the official website of the United States Navy. At the top, there's a navigation bar with links for HOME, ABOUT, LEADERSHIP, NEWS, MEDIA, LINKS, CAREERS, and CONTACT US. To the right of the navigation is a search bar with a 'Subscribe to Navy News Service' button and a magnifying glass icon. Below the navigation, there's a large banner featuring the United States Navy seal and the text 'United States Navy Fact File'. On the left side of the main content area, there's a section titled 'AIRCRAFT CARRIERS - CVN' with a sub-section 'Description' explaining the role of aircraft carriers. Another section discusses the 'Gerald R. Ford class' of aircraft carriers. On the right side, there's a large image of an aircraft carrier at sea, with a link to view it larger or download it. Below the image is a video thumbnail for 'USS Dwight D. Eisenhower (CVN 69) underway in the Atlantic'. There's also a 'Printer Friendly View of Fact Sheet' link and social media sharing options.

AIRCRAFT CARRIERS - CVN

Description

Aircraft carriers are the centerpiece of America's Naval forces. On any given day, aircraft carriers exercise the Navy core capabilities of power projection, forward presence, humanitarian assistance, deterrence, sea control and maritime security.

Features

The aircraft carrier continues to be the centerpiece of the forces necessary for forward presence. In times of crisis, the first question leaders ask in a crisis is: □Where are the carriers?□ Often the presence of an aircraft carrier has deterred potential adversaries from striking against U.S. interests. Aircraft Carriers support and operate aircraft that engage in attacks on airborne, afloat and ashore targets that threaten free use of the sea; and engage in sustained power projection operations in support U.S. and coalition ground forces in Operation Enduring Freedom and Iraqi Freedom. The aircraft carrier and its strike group also engage in maritime security operations to interdict threats to merchant shipping and prevent the use of the seas as a highway for terrorist traffic. Aircraft also provide unique capabilities for disaster response and humanitarian assistance. The embarked carrier air wing provides helicopters for direct support and C4I assets to support them and ensure aid is routed quickly and safely. The 10 Nimitz class aircraft carriers are the largest warships in the world, each designed for an approximately 50 year service life with one mid-life refueling. USS Nimitz (CVN 68), USS Dwight D. Eisenhower (CVN 69), and USS Carl Vinson (CVN 70) have all completed their Refueling Complex Overhauls (RCOH) at Newport News, Va., with USS Theodore Roosevelt (CVN 71) commenced RCOH in 2009. The next generation of aircraft carrier, the Gerald R. Ford class (CVN 78) was ordered in 2008 and is slated to be delivered in 2015 to replace USS Enterprise (CVN 65).

Gerald R. Ford class

The Gerald R. Ford class is the future aircraft carrier replacement class for USS Enterprise and CVN 68, or Nimitz class aircraft carriers. Gerald R. Ford (CVN 78) was ordered from Newport News Shipbuilding on Sept. 10, 2008, and is scheduled to be delivered in 2015. The Gerald R. Ford class will be the premier forward asset for crisis response and early decisive striking power in a major combat operation. Gerald R. Ford class aircraft carriers and carrier strike groups will provide the core capabilities of forward presence, deterrence, sea control, power projection, maritime security and humanitarian assistance. The class brings improved warfighting capability, quality of life improvements for our Sailors and reduced acquisition and life cycle costs.

Each ship in the new class will save more than \$5 billion in total ownership costs during its 50-year service life, compared to the Nimitz-class. For comparison, the total ownership cost for a Nimitz-class ship is \$32.1 billion in FY 04 constant year dollars, and the total ownership cost for CVN 78 is expected to be \$26.8 billion. Half of the total ownership cost for an aircraft carrier is allocated to the direct and indirect costs of manpower for operations and maintenance of the ship. The CVN 78 is being designed to operate effectively with nearly 800 fewer crew members than a CVN 68-class ship. Improvements in the ship design will allow the embarked air wing to operate with 400 fewer personnel. Technologies and ship design initiatives that replace maintenance-intensive systems with low maintenance systems are expected to reduce watch standing and maintenance workload for the crew. Gerald R. Ford is the first aircraft carrier designed with all electric utilities, eliminating steam service lines from the ship, reducing maintenance requirements and improving corrosion control efforts. The new A1B reactor, Electromagnetic Aircraft Launch System (EMALS), Advanced Arresting Gear (AAG) and Dual Band Radar (DBR) all offer enhanced capability with reduced manning requirements. The Gerald R. Ford class is designed to maximize the striking power of the embarked carrier air wing. The ship's systems and configuration are optimized to maximize the sortie generation rate (SGR) of attached strike aircraft, resulting in a 25 percent increase in SGR over the Nimitz class. The ship's configuration and electrical generating plant are designed to accommodate any foreseeable requirements during its 50- year service life. The Gerald R. Ford class builds upon the Navy's legacy of aircraft carrier innovation stretching back to the first aircraft carrier, USS Langley (CV-1) and continuing to the present day. The introduction of jet aircraft, angled decks and nuclear power were all innovations that kept the fleet relevant for Cold War needs. Gerald R. Ford continues the aircraft carrier history of innovation and adaptability that will enable her to serve our country for decades to come.

Point Of Contact

Naval Sea Systems Command
Office of Corporate Communications
Washington, D.C. 20376

Figure 13. Navy Fact File page for aircraft carriers [39] (continued)

General Characteristics, *Nimitz* class
 Builder: Newport News Shipbuilding Co., Newport News, Va.
 Date Deployed: May 3, 1975 (USS *Nimitz*).
 Unit Cost: About \$4.5 billion each.
 Propulsion: Two nuclear reactors, four shafts.
 Length: 1,092 feet (332.85 meters).
 Beam: 134 feet (40.84 meters). Flight Deck Width: 252 feet (76.8 meters).
 Displacement: Approximately 97,000 tons (87,996.9 metric tons) full load.
 Speed: 30+ knots (34.5+ miles per hour).
 Crew: Ship's Company: 3,000-3,200, air wing: 1,500, other: 500.
 Armament: Multiple NATO Sea Sparrow, Phalanx CIWS, and Rolling Airframe Missile (RAM) mounts.
 Aircraft: Approximately 60+.
 Ships:
USS Nimitz (CVN 68), Bremerton, Wash.
USS Dwight D. Eisenhower (CVN 69), Norfolk, Va.
USS Carl Vinson (CVN 70), San Diego, Calif.
USS Theodore Roosevelt (CVN 71), Norfolk, Va.
USS Abraham Lincoln (CVN 72), Everett, Wash.
USS George Washington (CVN 73), Yokosuka, Japan
USS John C. Stennis (CVN 74), Bremerton, Wash.
USS Harry S. Truman (CVN 75), Norfolk, Va.
USS Ronald Reagan (CVN 76), San Diego, Calif.
USS George H.W. Bush (CVN 77), Norfolk, Va.

General Characteristics, *Enterprise* class
 Builder: Newport News Shipbuilding Co., Newport News, Va.
 Date Deployed: November 25, 1961 (USS *Enterprise*).
 Propulsion: Eight nuclear reactors, four shafts.
 Length: 1,101 feet 2 inches (335.64 meters).
 Beam: 133 feet (39.9 meters); 252 feet (75.6 meters).
 Displacement: 89,600 tons (81,283.8 metric tons) full load.
 Speed: 30+ knots (34.5 miles per hour).
 Crew: Ship's Company: 3,350 - Air Wing 2,480.
 Armament: Multiple NATO Sea Sparrow, Phalanx CIWS, and rolling Airframe Missile (RAM) mounts.
 Aircraft: Approximately 60+.
 Ships:
USS Enterprise (CVN 65), Norfolk, VA

General Characteristics, *Gerald R. Ford* class
 Builder: Newport News Shipbuilding, Newport News, Va.
 Propulsion: Two nuclear reactors, four shafts.
 Length: 1,092 feet.
 Beam: 134 feet. Flight Deck Width: 256 feet.
 Displacement: approximately 100,000 long tons full load.
 Speed: 30+ knots (34.5 miles per hour)
 Crew: 4,660 (ship, air wing and staff).
 Armament: Evolved Sea Sparrow Missile, Rolling Airframe Missile, CIWS.
 Aircraft: 75+.
 Ships:
 PCU *Gerald R. Ford* (CVN 78)
 PCU *John F. Kennedy* (CVN 79)

Last Update: 6 January 2012



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Our Ships	SES Biographies	Print Ad Gallery	Navy Office of Community Outreach	Navy Personnel Command	Navy Knowledge Online	Navy Personnel Command	
Fact Files	Navy Command Tools	Podcasts & RSS Feeds	Naval History & Heritage Command	Pentagon Channel	U.S. Army	U.S. Air Force	
Today in Naval History				U.S. Marine Corps	U.S. Coast Guard	Navy Reserve	
FAQ				U.S. Navy	Defense.gov	Joint Chiefs of Staff	

Chief of Information

- Column O: [MSC Ship Link](#)
These links go to MSC's individual ship pages, such as that for USNS *Comfort* (T-AH 20) in figure 14.
- Column P: [MSC Type \(MSC Fact Sheet Link\)](#)
Links to MSC's Fact Sheets on the various ship types. Figure 15 shows the Fact Sheet for Hospital Ships.
- Column Q: [MARAD NDRF Program-Type / Status \(PMARS Link\)](#)
These inactive links were for MARAD's former Property Management & Archives System (PMARS) ship data pages. That system has been suspended pending replacement. We have retained the former links for the historical record.
- Column R: [DANFS Entry \(NHHC Link\)](#)
These links go to the Dictionary of American Naval Fighting Ships (DANFS) pages of the Naval History & Heritage Command (NHHC). Figure 16 shows the top portion of the DANFS page for USS *Enterprise* (CVN 65).
- Column S: [Ship History Report \(NHHC Link\)](#)
These links take you to the NHHC's index pages for ships with annual Ship History Reports. Figure 17 is the index page for USS *Enterprise* (CVN 65). Figure 18 shows a page from USS *Enterprise*'s Command Operations Report for 2005.)
- Column T: [Homeport \(NVR Link\)](#)
These links take you to NVR's full list of ships in the respective homeports. See figure 19 for a sample list of ships homeported in Norfolk, VA.
- Column U: Previous, Other Names
- Column V: Award Date
- Column W: Keel Date
- Column X: Launch Date
- Column Y: Delivery Date

Figure 14. MSC Ship Inventory page for USNS *Comfort* (T-AH 20) [40]

 **Military Sealift Command
Ship Inventory**

[Home](#) [Latest News](#) [MSC Overview](#) [Commander Organization](#) [Ship Inventory](#) [Employment](#) [CIVMAR](#) [Contracts](#)

USNS COMFORT (T-AH 20)
Hospital Ship



[USNS Comfort Fact Sheet](#)

USNS *Comfort* is one of Military Sealift Command's two [Hospital Ships](#) and one of the 15 ships in Military Sealift Command's [Service Support Program](#).

- Length: 894 feet
- Beam: 106 feet
- Draft: 33 feet
- Displacement: 69,360 long tons
- Speed: 17.5 knots
- Status: [Reduced Operating Status \(5\)](#)
- Civilian: 18 ROS/65 FOS civil service mariners
- Military: 60 ROS/1,215 FOS
- Government-Owned/ Chartered: Government-owned

Click on image at left for larger picture.

[Return to ship inventory main page](#) [Glossary of Terms](#)

This vessel is operated by the U.S. government and used only on non-commercial government service.

 [View print version](#) *Last modified: June 23, 2010*

Figure 15. MSC Fact Sheet for Hospital Ships [41]

 **Military Sealift Command
Fact Sheet**

[Home](#) [Latest News](#) [MSC Overview](#) [Commander](#) [Organization](#) [Ship Inventory](#) [Employment](#) [CIVMAR](#) [Contracts](#)

[View print version](#)

August 2008

**U.S. Navy's Military Sealift Command
Fact Sheet**

Hospital Ships - T-AH

Description: Two hospital ships owned and operated by Military Sealift Command provide emergency, on-site care for U.S. combatant forces deployed in war or other operations. The hospital ships' secondary mission is to provide full hospital services to support U.S. disaster relief and humanitarian operations worldwide

Features: USNS Mercy (T-AH 19) and USNS Comfort (T-AH 20) each contain 12 fully-equipped operating rooms, a 1,000 bed hospital facility, digital radiological services, a medical laboratory, a pharmacy, an optometry lab, a CAT-scan and two oxygen producing plants. Each ship is equipped with a helicopter deck capable of landing large military helicopters. The ships also have side ports to take on patients at sea.

Background: Both hospital ships are converted San Clemente-class super tankers. Mercy was delivered in 1986 and Comfort in 1987. Normally, the ships are kept in a reduced operating status in Baltimore, Md., and San Diego, Calif., by a small crew of civil service mariners and active duty Navy medical and support personnel. Each ship can be fully activated and crewed within five days.

Point of contact:
Public Affairs Office
Military Sealift Command
914 Charles Morris Court SE
Washington Navy Yard, D.C. 20398-5540
(202) 685-5055 or www.msc.navy.mil

General Characteristics: Mercy Class
Conversion: National Steel and Shipbuilding Co., San Diego, Calif.
Power Plant: Two GE turbines; two boilers; 24,500 hp (18.3MW); one shaft
Length: 894 feet (272.6 meters)
Beam: 106 feet (32.2 meters)
Displacement: 69,360 tons (70,473.10 metric tons) full load
Speed: 17.5 knots (20.13 mph)
Aircraft: Helicopter platform only
Ships: No homeports assigned
[USNS Mercy \(T-AH 19\)*](#)
[USNS Comfort \(T-AH 20\)**](#)

* In reduced operating status in San Diego when not activated
**In reduced operating status in Baltimore when not activated

Full Operating Status Crew: 68 civil service mariners and up to 1,215 Naval medical personnel
Reduced Operating Status Crew: 18 civil service mariners and 58 Naval medical personnel

[Fact Sheet Index](#)

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Military Sealift Command, ATTN: Public Affairs, 914 Charles Morris Ct. SE, Washington Navy Yard, DC, 20398-5540
CIVMAR support: 1-800-793-5784 • Marine Employment Opportunities: 1-877-JOBS-MSC (562-7672) • Email: webmaster@msc.navy.mil

This is an Official U.S. Navy Web site and is the official web site of the Military Sealift Command. For more information on employment with the Navy, visit [Navy Jobs](#).
MSC reports to Fleet Forces Command and is one of three component commands reporting to the U.S. Transportation Command, known as [USTRANSCOM](#).

Figure 16. Top portion of NHHC's DANFS page for USS *Enterprise* (CVN 65) [42]

[DANFS Index](#)  [Naval History & Heritage Command home](#)

DICTIONARY
of American
Naval Fighting Ships



DEPARTMENT OF THE NAVY -- NAVAL HISTORY & HERITAGE COMMAND

Enterprise

The eighth *Enterprise* (CVA(N)-65) was named in honor of the seventh *Enterprise* (CV-6) and her predecessor ships of that name.

VII

(CVA(N)-65: displacement 85,600 tons (full load); length 1101'; beam 133'; extreme width 252'; draft 35'; speed 30+ knots; complement 4,600; class *Enterprise*)

Related Resource:

Video - [An Answer: JFK Visits the Atlantic Fleet \(1962\)](#)

History: 1961-1965

The eighth *Enterprise* (CVA(N)-65) - the world's first nuclear-powered aircraft carrier - was laid down on 4 February 1958 at Newport News, Va., by the Newport News Shipbuilding and Dry Dock Co.; launched on 24 September 1960; sponsored by Mrs. William B. Franke, wife of the Secretary of the Navy; and commissioned on 25 November 1961, Captain Vincent P. de Poix in command.

After commissioning, *Enterprise* began a lengthy series of tests and training exercises, designed to determine her full capabilities. Beginning six days of builder's and Navy pre-acceptance trials on 29 October 1961, she exceeded expectations, her reactors generating such horsepower that she "literally out-ran her destroyer escort."

Lieutenant Commander Oscar Folsom, Jr., Fleet Tactical Support Squadron (VRC)-40, became the first to fly from the ship's flight deck, transporting dignitaries, who had embarked to witness the sea trials, to shore in a Grumman C-1A *Trader*. *Enterprise* returned to port with a huge broom tied to her masthead, the traditional symbol of victory at sea, proclaiming a "clean sweep."

Enterprise went to sea for the first time as a commissioned ship for her shakedown cruise, on 12 January 1962, on that date also being announced as the flagship of Nuclear Task Force (TF) One. During this period she began fleet flight operations, when Commander George C. Talley, Jr., Commander Air Group (CAG), Carrier Air Group (CVG)-1 (Tail Code AB), made an arrested landing and catapult launch in an Ling Temco Vought F-8B *Crusader* (BuNo 145375) from Fighter Squadron (VF) 62 on 17 January.

After completing carrier qualifications (carquals), *Enterprise* was privileged to play a role in the space age, putting to sea for ten days as part of the Project Mercury Recovery Force off Bermuda. Three carriers, including *The Big E*, patrolled the most likely areas for reentry and impact of the capsule, but unforeseen delays postponed that second attempt to send a man into space and the ship returned to Norfolk.

The following weeks proved busy ones. On 5 February *Enterprise* sailed for the Caribbean and Guantánamo Bay, Cuba, for her shakedown with elements of CVG-1, including VF-62 (F-8Bs) and VF-102 (F-4Bs), Attack Squadron (VA)-15 (Douglas A-1H *Skyraiders*), VA-64 and VA-172 (McDonnell Douglas A-4C *Skyhawks*), Light Photographic Reconnaissance Squadron (VFP)-62 Detachment (Det) 60 (RF-8A *Crusaders*) and Carrier Airborne Early Warning Squadron (VAW)-12 Det 60 (Grumman E-1B *Tracers*) embarked.

In addition, en route to the Caribbean she paused at Mayport, Florida, to embark Heavy Attack Squadron (VAH)-7 (North American A-5A *Vigilantes*). On 15 February the ship logged her 1,000th

Figure 17. NHHC Command Operations/Ship History index page for USS *Enterprise* [43]

NHHC home  Ships History Branch


NAVAL
HISTORY &
HERITAGE
* COMMAND *

DEPARTMENT OF THE NAVY – NAVAL HISTORICAL & HERITAGE COMMAND



Index for Histories/Command Operations Reports submitted by Enterprise (CVN 65):

Click on the year to view the history/command operation report.
Requires Adobe Acrobat

1958-1963	1976	1991
1962-1966	1977	1992
1963	1978	1993
1964	1979	1994
1965	1980	1995
1966	1981	1996
1967	1982	1997
1968	1983	1998
1969	1984	1999
1970	1985	2000 No report
1971	1986	2001
1972	1987	2002 Classified
1973	1988	2003
1974	1989	2004
1975	1990	2005

Figure 18. Sample from USS *Enterprise* Command Operations Report for 2005 [44]

UNCLASSIFIED

Subj: USS ENTERPRISE -- 2005 COMMAND OPERATIONS REPORT

OPERATIONS DEPARTMENT

Air Operations

This past year has been one of tremendous activity and accomplishment for the Air Operations function within Operations Department. Composed of three Branches: Carrier Air Traffic Control Center (CATCC), Air Operations (Air Ops), and Air Transfer Office (ATO), this function is manned by five officers, two chief petty officers, and 38 enlisted Sailors. The year brought us the completion of Extended Ship's Restricted Availability (ESRA) and returned Enterprise to a sea-going fighting machine!

The Air Operations function began the year in the midst of ESRA at the Northrup-Grumman Newport News shipyard located in Newport News, Va. Air Operations established and operated a substantial transportation team which transported nearly 775,000 sailors from the pier to satellite parking sites accumulating over 665,000 vehicle miles in a 13 month period. In early spring, the CATCC team traveled to Pensacola, Fla. for annual team training. During this intensive two week hands-on refresher training, the CATCC-65 team surpassed all established records for professionalism, safety and adherence to air traffic control doctrine and procedures. After the completion of practical refresher training, Air Operations' attention was focused on preparing for the upcoming Commander, Naval Air Forces, U.S. Atlantic Fleet Quality Assurance audit. After an exhaustive inspection encompassing training procedures and documentation, publications, manuals and records, as well as an assessment of CATCC-65 team culture, the inspection team unearthed zero discrepancies in Air Operations.

Enterprise set sail for sea trials in late summer. Following a successful shake-down of all systems and a brief in-port period, Enterprise was underway again for Flight Deck Certification and CATCC Certification. While underway, Air Operations was integral in Air Department's regaining Flight Deck Certification, along with CATCC regaining Case III flight operations certification. Furthermore, Air Operations' air traffic control equipment was re-certified, including the Precision Approach Landing System (PALS), TACAN, and Instrument Landing System (BULLSEYE). After another brief in-port period, Enterprise set sail for TSTA and FEP. Air Operations function again set records by controlling CVW-1 aircraft in over 2207 sorties, moving 82,600 pounds of mail, parts and cargo, and transporting 637 passengers in a three week period.

End of year awards saw CATCC 65 personnel recognized for their excellence with the selection of ACC Bradley Vassar as the Commander, Naval Air Forces, U. S. Atlantic Fleet Air Traffic Controller of the Year. Divisional personnel were also recognized for superior performance in the field of excellence by earning two Navy Commendation Medals, twelve Navy and Marine Corps Achievement Medals, five Flag Letter of Commendations, and numerous Sailor of the Quarter awards.

Figure 19. NVR's Homeport page for Norfolk, VA [45]




This information resides on a DOD interest computer.
Important [conditions, restrictions, and disclaimers](#) apply.

Homeport: NORFOLK, VA

Select a Hull

Class	Hull	Name
AFSB 15	AFSB 15	FONCE
CG 47	CG 55	LEYTE GULF
CG 47	CG 56	SAN JACINTO
CG 47	CG 60	MARSHALL
CG 47	CG 61	MONTREY
CG 47	CG 68	ANZIO
CG 47	CG 72	VELLA GULF
CVN 65	CVN 65	ENTERPRISE
CVN 68	CVN 69	DWIGHT D EISENHOWER
CVN 68	CVN 71	THEODORE ROOSEVELT
CVN 68	CVN 75	HARRY S TRUMAN
CVN 68	CVN 77	GEORGE H W BUSH
DDG 51	DDG 51	ARLEIGH BURKE
DDG 51	DDG 52	BARRY
DDG 51	DDG 55	STOUT
DDG 51	DDG 56	WEISCHER
DDG 51	DDG 58	LADON
DDG 51	DDG 61	RANGE
DDG 51	DDG 66	GONZALEZ
DDG 51	DDG 67	COLE
DDG 51	DDG 71	ROSS
DDG 51	DDG 72	MAHAN
DDG 51	DDG 74	MCPAUL
DDG 51	DDG 75	DONALD COOK
DDG 51	DDG 78	PORTER
DDG 51	DDG 79	OSCAR AUSTIN
DDG 51	DDG 81	WILLIAM S CHURCHILL
DDG 51	DDG 84	BULkeley
DDG 51	DDG 87	MASON
DDG 51	DDG 94	NITZE
DDG 51	DDG 95	JAMES E WILLIAMS
DDG 51	DDG 96	BAINBRIDGE
DDG 51	DDG 98	FORREST SHERMAN
DDG 51	DDG 103	TRUXTUN
DDG 51	DDG 107	GRAVELY
DDG 51	DDG 109	JASON DUNHAM
FFG 7	FFG 47	NICHOLAS
FFG 7	FFG 52	GRAY
FFG 7	FFG 55	ELROD
FFG 7	FFG 59	KAUFFMAN
LHD 1	LHD 1	WASP
LHD 1	LHD 3	KEARSARGE
LHD 1	LHD 5	BATAAN
LHD 1	LHD 7	IWO JIMA
LPD 17	LPD 17	SAN ANTONIO
LPD 17	LPD 19	MESA VERDE
LPD 17	LPD 21	NEW YORK
SSN 688	SSN 714	NORFOLK
SSN 688	SSN 750	NEWPORT NEWS
SSN 688	SSN 751	ALBANY
SSN 688	SSN 756	SCRANTON
SSN 688	SSN 764	BOISE
SSN 688	SSN 765	MONTELIER

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NAVAL SEA SYSTEMS COMMAND
SHIPBUILDING SUPPORT OFFICE

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Naval Sea Shipbuilding Support Office
Norfolk Naval Shipyard
Code 234, Bldg 705
Portsmouth, VA 23709-5000
(757) 967-3484
(757) 967-2687 (FAX)

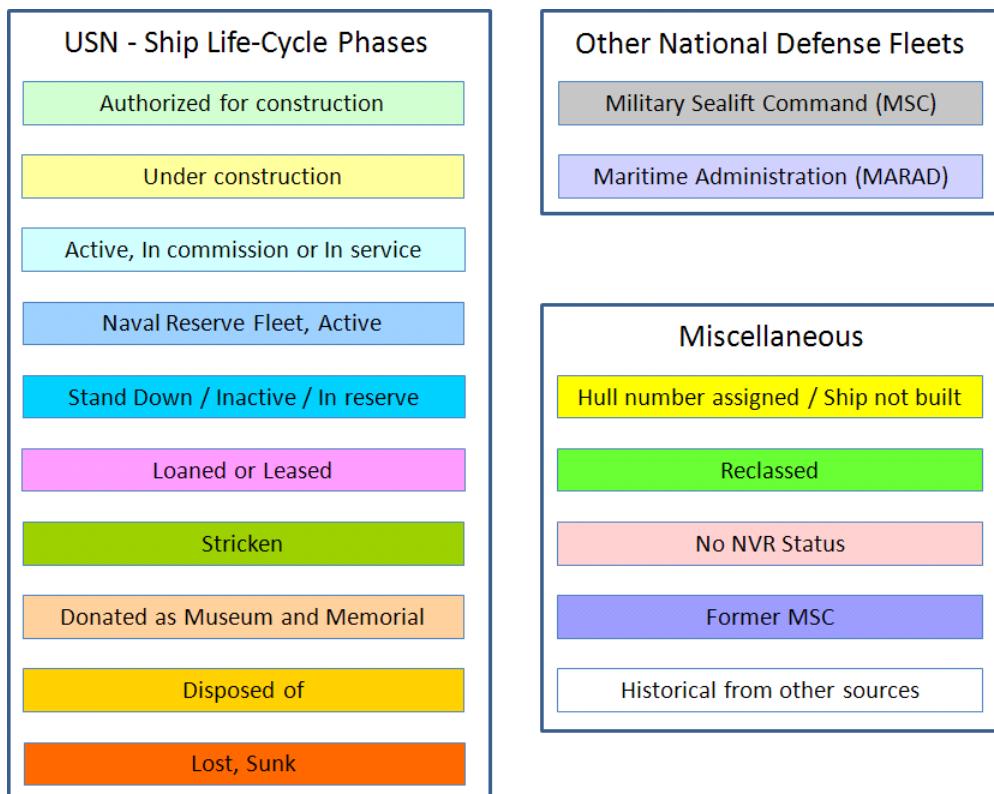


MAIL
 WebMASTER

- Column Z: Commission Date
- Column AA: Age
- Column AB: Decommission/OOA Date
- Column AC: Inactivation Date
- Column AD: Stricken Date
- Column AE: Date Last Updated
- Column AF: Additional Comments; References

Cell shading. We have shaded the worksheet to visually distinguish various sections. Figure 20 is a legend for the coloring scheme.

Figure 20. Legend for *DataTableOriginal_Dec11* color scheme



There are three sections in the figure. The section on the left represents the records of Navy ships distinguished by phases in the ship life cycle.

The group at the upper right of the figure represent the two organizations that contribute to the national defense and serve as custodians of NVR units, that is, MSC and MARAD.

The group at the lower right is a miscellaneous assortment:

- The upper three boxes in this group account for other records from the NVR.
 - The first subgroup is for units authorized for construction, assigned hull numbers, but never constructed.
 - The second subgroup includes records for units that were reclassified. These records show the original classification.
 - The third sub group has ship records that have not been assigned a status by NVR.
- The lower two subgroups include ship records derived from sources other than the NVR.
 - The first set includes former MSC ships recorded in MSC's Ship Inventory data.
 - The second set of records are for historical ship data come from other sources, specifically: the Navy Fact File; NHHC's DANFS; and MARAD's PMARS.

DataTableCopy

We protected *DataTableOriginal_Dec11* to preserve data integrity. You can use many of Excel's features in a protected worksheet, but you cannot use all of them (like the *Sort* function or toggling the *Autofilter* function on and off).

Consequently, we inserted a blank worksheet, named *DataTableCopy*, into which you can paste a copy of *DataTableOriginal_Dec11* and modify it without restriction. As an example, we sorted a copy of *DataTableOriginal_Dec11* by Ship Name. The result can be seen in figure 21.

Figure 21. The result of sorting by Ship Name — An example of data manipulation in *DataTableCopy*

	A	B	C	D	E	F	G
1	Return To The Directory	Today is	Thursday	July 5, 2012			
2	Ship Name	Abbrev	Prefix	Hull No. (NVR Link)	NVR Type	UIC	Status
3	1ST LT HARRY L. MARTIN	HLM	USNS	T-AK_2015	T-AK Cargo Ship	23005	Military Sealift Command (MSC), in service, contract operated /P ₇
4	1ST LT JACK LUMMUS	JLS	USNS	T-AK_3011	T-AK Cargo Ship	21633	Military Sealift Command (MSC), in service, contract operated /P ₇
5	1ST LT. ALEX BONNYMAN	ABN		AK_3003	AK Cargo Ship	21685	Disposed of by return to owner
6	1ST LT. BALDOMERO LOPEZ	BLE	USNS	T-AK_3010	T-AK Cargo Ship	21512	Military Sealift Command (MSC), in service, contract operated /P ₇
7	2ND LT. JOHN R. BOBO	JPB	USNS	T-AK_2008	T-AK Cargo Ship	21629	Military Sealift Command (MSC), in service, contract operated /P ₇
8	A/C WILLIAM H. PITSENBERGER	VHP		AK_4638	AK Cargo Ship	23518	Disposed of by return to owner
9	ABATAN			AV4	A/V Distilling Ship	04842	Disposed of in support of Fleet training exercise
10	ABBOT			DD_628	DD Destroyer	04023	Disposed of, by Navy sale
11	ABLE	ABL	USNS	T-AGOS_20	T-AGOS Ocean Surveillance Ship	21866	Military Sealift Command (MSC), Special Mission Support
12	ABINAKI			ATF_96	ATF Fleet Ocean Tug	07096	Disposed of through the Security Assistance Program (SAP), trans
13	ABRAHAM LINCOLN	ABE	USS	CVN_72	CVN Multi-Purpose Aircraft Carrier (Nuclear-Propulsion)	21297	Active, in commission
14	ABRAHAM LINCOLN			SSBN_602	SSBN Ballistic Missile Submarine (Nuclear-Powered)	05110	Disposed of by submarine recycling
15	ACADIA			AD_42	AD Destroyer Tender	21047	Disposed of in support of Fleet training exercise
16	ACCOKEEK			ATA_181	ATA Auxiliary Ocean Tug	08108	Disposed of by transfer to other Government Agencies, States, Sel
17	ACHELOUS			ARL_1	ARL Repair Ship, Small	50010	Disposed of, by Navy sale
18	ACHOMAWI			ATF_48	ATF Fleet Ocean Tug	08156	Disposed of, by Navy sale
19	ACME			MSO_508	MSO Minesweeper, Ocean	08156	Disposed of, by Navy sale
20	ACREE			DE_167	DE Escort Ship	02867	Disposed of, by Navy sale
21	ACUBENS			AKS_5	AKS Stores Issue Ship		Historical from PMARS, DANFS
22	ADMIRAL W. M. CALLAGHAN	WMG		AKR_1001	AKR Vehicle Cargo Ship	43365	Forces, /Sealift Program/
23	ADONIS			AF_30	AF Store Ship	08615	Former MARAD/NDRF; Scrap sale
24	ADRIA			MSO_509	MSO Minesweeper, Ocean	08157	Disposed of by MARAD sale
25	ADROIT			MSO_610	MSO Minesweeper, Ocean	08158	Disposed of, by Navy sale
26	ADVANCE			MSO_610	MSO Minesweeper, Ocean		MARAD/NDRF, Not reported in NVR
27	ADVENTURER			AGOS_13	AGOS Ocean Surveillance Ship	21576	Disposed of by transfer to other Government Agencies, States, Sel
28	ADVENTUROUS			AS_23	AS Submarine Tender		Historical from PMARS, DANFS
29	AEGIR			ARC_3	ARC Cable Repairing Ship	01247	Disposed of by transfer to other Government Agencies, States, Sel
30	AEOLUS			MSO_611	MSO Minesweeper, Ocean	08159	Disposed of by scrapping, dismantling
31	AFFRAY			AOG_6	AOG Gasoline Tanker		Historical from PMARS, DANFS
32	AGAWAM						
33	AGENT						MARAD/NDRF, Not reported in NVR
34	AGERHOLM			DD_826	DD Destroyer	52126	Disposed of in support of Fleet training exercise
35	AGGRESSIVE			MSO_422	MSO Minesweeper, Ocean	07952	Disposed of, by Navy sale
36	AGILE			MSO_421	MSO Minesweeper, Ocean	07951	Disposed of, by Navy sale
37	AIDE						MARAD/NDRF, Not reported in NVR
38	AINSWORTH	AIN		FFT_1020	FFT Frigate (Reserve Training)	20068	Disposed of through the Security Assistance Program (SAP), trans
39	AJAX			AR_8	AR Repair Ship	08806	Disposed of, by Navy sale
40	ALABAMA	ALA, ALB	USS	SSBN_731	SSBN Ballistic Missile Submarine (Nuclear-Powered)	21041	Active, in commission
41	ALABAMA			BB_60	BB Battleship	03060	Donated as a Museum and Memorial
42	ALABAMA			BB_8	BB Battleship		Disposed of, sold for scrapping
43	ALARCRY			AG_520	AG Miscellaneous	08161	Disposed of, by Navy sale
44	ALAMANCE			AKA_75	AKA Attack Cargo Ship		Historical from PMARS, DANFS
45	ALAMO	ALM		LSD_33	LSD Dock Landing Ship	03133	Disposed of through the Security Assistance Program (SAP), trans
46	ALAN SHEPARD	SHE, ASD	USNS	T-AKE_3	T-AKE Dry Cargo and Ammunition Ship	23193	Military Sealift Command (MSC) Naval Fleet Auxiliary Force
47	ALASKA	AKA	USS	SSBN_732	SSBN Ballistic Missile Submarine (Nuclear-Powered)	21042	Active, in commission
48	ALATINA			AOG_81	AOG Gasoline Tanker	04781	Disposed of by Navy title transfer to the Maritime Administration
49	ALBACORE			AGSS_563	AGSS Auxiliary Research Submarine	05580	Donated as a Museum and Memorial
50	ALBANY	ALY	USS	SSN_753	SSN Submarine (Nuclear-Powered)	21462	Active, in commission
51	ALBANY			CG_10	CG Guided Missile Cruiser	03623	Disposed of, by Navy sale
52	ALBERMARLE			AV_5	AV Seaplane Tender		Historical from PMARS, DANFS
53	AI FERT DAVID			FF_1010	FF Frigate	54045	Disposed of through the Security Assistance Program (SAP), trans

The Directory DataTableOriginal_Dec11 **DataTableCopy** Basic PivotTable QuikLook_5030.8A Battleforce QuikLook_5030.8A NonBattleforce QuikLook_NVR Ship Battle Forces

Ready

75%

The pivot tables

Microsoft Excel's pivot tables offer a way to filter, organize, apply calculations, and display information from a database. Furthermore, you can rapidly re-filter, reorganize, modify calculations, and re-display with pivot tables.

In this section, we describe the six pivot tables in the ISDB.

The *Basic Pivot Table*

The third worksheet in the database file is the *Basic PivotTable*. It provides a quick summary of the database contents. In figure 22, you see the opening view of *Basic PivotTable*. This compressed display shows the number of records in the database for the various Status Groups. These Groups include:

- For NVR ship records [46]
 - Authorized
 - Under Construction
 - Active
 - Naval Reserve Force, Active
 - Stand Down
 - Inactive
 - Leased
 - Loan
 - Stricken
 - Disposed
 - Special, Miscellaneous
 - Military Sealift Command, Naval Fleet Auxiliary Force
 - Military Sealift Command, Contract Operated
 - Military Sealift Command, Special Mission Support
 - Other NVR

Figure 22. Initial compressed view of *Basic PivotTable*

A	B	C	D	E	F				
1	Return to The Directory	FOR NVR'S CURRENT PAGE ON SHIP BATTLE FORCES. CLICK HERE							
Count of Ship Name									
4 Status Group									
5	<input type="radio"/> Authorized	Status	<input type="radio"/> NVR Type	<input type="radio"/> Hull No. (NVR Link)	<input type="radio"/> Ship Name				
6	<input checked="" type="radio"/> Under construction								
7	<input type="radio"/> Active								
8	<input type="radio"/> Naval Reserve Force, Active								
9	<input type="radio"/> Stand Down								
10	<input type="radio"/> Inactive								
11	<input type="radio"/> Leased								
12	<input type="radio"/> Loan								
13	<input type="radio"/> Stricken								
14	<input type="radio"/> Disposed								
15	<input type="radio"/> Special, Miscellaneous								
16	<input type="radio"/> Military Sealift Command, Naval Fleet Auxiliary Force								
17	<input type="radio"/> Military Sealift Command, Contract Operated								
18	<input type="radio"/> Military Sealift Command, Special Mission Support								
19	<input type="radio"/> Other NVR								
20	<input type="radio"/> Other, Not in NVR								
21	Grand Total								
22									
23									
24									

- For ship records not in NVR
 - Other, Not in NVR

To expand the display and reveal the ship counts in the various Status Groups, follow the steps in figure 23:

1. Select cell A4, “Status Group,” and right-click to bring up the first drop-down menu.
2. Roll the cursor over the “Expand/Collapse” option in the first menu to display the second drop-down menu.
3. Left-click the “Expand” option.

Figure 24 shows the resulting expansion.

If you follow the same sequence of steps across “Status” and “NVR Type”, you can see the successive expansions in figures 25 and 26.

Figure 26 is the fully expanded view of the pivot table. In it, you can see the detailed ship names and hull numbers for units within the various ship status groupings.

Figure 23. How to expand Status Group in *Basic PivotTable*

The screenshot shows a Microsoft Excel spreadsheet with a Basic PivotTable. The PivotTable has columns for Status, NVR Type, Hull No. (NVR Link), Ship Name, and Total. A context menu is open over the 'Status' column header, specifically over the 'Status Group' row. The menu path 'Expand/Collapse > Expand' is highlighted. Other options in the submenu include Collapse, Expand Entire Field, Collapse Entire Field, Collapse to 'Status Group', Expand to 'Status', Expand to 'NVR Type', Expand to 'Hull No.(NVR Link)', and Expand to 'Ship Name'. The PivotTable shows data for various ship statuses, with a total count of 3,179.

	A	B	C	D	E	F
1	Return					
2		Arial 11	A A \$ % ,			
3	Count of Ship Name					
4	Status Group					
5	Authorized					23
6	Under construction					16
7	Active					247
8	Naval Reserve Force					10
9	Stand Down					6
10	Inactive					12
11	Leased					7
12	Loan					2
13	Stricken					105
14	Disposed					1,963
15	Special, Miscellaneous					58
16	Military Sealift Comm					42
17	Military Sealift Comm					31
18	Military Sealift Comm					23
19	Other NVR					52
20	Other, Not in NVR					582
21	Grand Total					3,179
22						
23						
24						

Figure 24. View of *Basic PivotTable* with Status Group expanded

A	B	C	D	E	F
1	Return to The Directory	FOR NVR'S CURRENT PAGE ON SHIP BATTLE FORCES, CLICK HERE			
2					
3	Count of Ship Name				
4	Status Group	Status	NVR Type	Hull No. (NVR Link)	Ship Name
8	<input type="checkbox"/> Under construction	<input type="checkbox"/> Under construction in US by Navy, unassigned to fleet			15
9		<input type="checkbox"/> Under construction in US for US Army. NAVSEA is the contracting activity			1
10	<input type="checkbox"/> Active	<input type="checkbox"/> Active, in commission			241
11		<input type="checkbox"/> Active, In service			3
12		<input type="checkbox"/> Active, in commission / Military Sealift Command (MSC), Special Mission Support			3
13	<input type="checkbox"/> Naval Reserve Force, Active	<input type="checkbox"/> Naval Reserve Force, Active			10
14	<input type="checkbox"/> Stand Down	<input type="checkbox"/> In commission, in Reserve (Stand Down) commencement of inactivation availability			2
15		<input type="checkbox"/> Out of commission, in reserve			4
16	<input type="checkbox"/> Inactive	<input type="checkbox"/> Inactive, Out of Commission, in reserve			9
17		<input type="checkbox"/> Inactive, out of service, in reserve			2
18		<input type="checkbox"/> Inactive, Out of Commission			1
19	<input type="checkbox"/> Leased	<input type="checkbox"/> Leased (not SAP)			6
20		<input type="checkbox"/> SAP, Loaned or Leased			1
21	<input type="checkbox"/> Loan	<input type="checkbox"/> Loaned (not SAP); loan was effective/renewed on date shown in "Status Date"			1
22		<input type="checkbox"/> Loaned indefinitely and carried in the Ship Donation Program as a Museum and Memorial			1
23	<input type="checkbox"/> Stricken	<input type="checkbox"/> Stricken, available for donation as a museum and memorial			8
24		<input type="checkbox"/> Stricken, retained by Navy as museum			2
25		<input type="checkbox"/> Stricken, to be disposed of			27
26		<input type="checkbox"/> Stricken, to be disposed of by Navy sale			13
27		<input type="checkbox"/> Stricken, to be disposed of by recycling			3
28		<input type="checkbox"/> Stricken, to be disposed of by submarine recycling			17
29		<input type="checkbox"/> Stricken, to be disposed of, retain as logistics support asset			2
30		<input type="checkbox"/> Stricken, to be disposed of, retain as submarine moored training ship			2
31		<input type="checkbox"/> Stricken, to be disposed of by dismantling			12
32		<input type="checkbox"/> Stricken, to be disposed of by abandoning, sinking, or burning			1
33		<input type="checkbox"/> Stricken, to be disposed of in support of Fleet training exercise			1
34		<input type="checkbox"/> Stricken, to be disposed of, type of disposal not known			2
35		<input type="checkbox"/> Stricken, to be disposed of or by transfer to government agencies, activities, foreign countries (not SAP), MARAD, Sea Scouts, etc			10
36		<input type="checkbox"/> Stricken, to be disposed of by the Security Assistance Program (SAP), for cash sale			2
37		<input type="checkbox"/> The Navy awarded a contract for the dismantling of this ship, but it is not characterized as disposed of until the contractor completes and certifies completion of the dismantling			2
38		<input type="checkbox"/> The Navy awarded a contract for the dismantling of this ship, but it is not characterized as disposed of until the contractor delivery order is completed and certifies completion of the dismantling			1
39	<input type="checkbox"/> Disposed	<input type="checkbox"/> Dedicated as a Memorial			1
40		<input type="checkbox"/> Donated as a Museum and Memorial			35
41		<input type="checkbox"/> Disposed of by abandoning, burning, scuttling, or sinking			10
42		<input type="checkbox"/> Disposed of by Donation for use as Artificial Reefing			2
43		<input type="checkbox"/> Disposed of by MARAD exchange			64
44		<input type="checkbox"/> Disposed of by MARAD sale			99
45		<input type="checkbox"/> Disposed of by navy title transfer			3
46		<input type="checkbox"/> Disposed of by Navy title transfer to the Maritime Administration			166
47		<input type="checkbox"/> Disposed of by Recycling			9
48		<input type="checkbox"/> Disposed of by return to owner			16
49		<input type="checkbox"/> Disposed of by scrapping, dismantling			139
50		<input type="checkbox"/> Disposed of by submarine recycling			103
51		<input type="checkbox"/> Disposed of by transfer to other Government Agencies, States, Schools, Sea Scouts, etc.			42
52		<input type="checkbox"/> Disposed of in support of Fleet training exercise			213
53		<input type="checkbox"/> Disposed of through the Security Assistance Program (SAP), Foreign Military Sale or Lease			21
54		<input type="checkbox"/> Disposed of through the Security Assistance Program (SAP), transferred, cash sale, ex-US fleet hull foreign military sale case number assigned			399
		<input type="checkbox"/> Disposed of through the Security Assistance Program (SAP), transferred, Foreign Assistance Act			

Figure 25. Top portion of *Basic PivotTable* with Status Group and Status expanded

A	B	C	D	E	F
1	Return to The Directory	FOR NVR'S CURRENT PAGE ON SHIP BATTLE FORCES, CLICK HERE			
2					
3	Count of Ship Name				
4	Status Group	Status	NVR Type	Hull No. (NVR Link)	Ship Name
5	Authorized	Authorized, for US Navy construction	AGS Surveying Ship		1
6			DDG Guided Missile Destroyer		3
7			LCS Littoral Combat Ship		4
8			LPD Amphibious Transport Dock		1
9			SSN Submarine (Nuclear-Powered)		8
10			JHSV Joint High Speed Vessel		3
11		Authorized, for US Navy construction Total			20
12		Authorized, for construction	JHSV Joint High Speed Vessel		2
13		Authorized, for construction Total			2
14			LPD Amphibious Transport Dock		1
15		Hull number assigned, authorized to be built, construction contract has not been awarded			1
16		Hull number assigned, authorized to be built, construction contract has not been awarded Total			1
17	Under construction	Under construction in US by Navy, unassigned to fleet	AGM Missile Range Instrumentation Ship		1
18			CVN Multi-Purpose Aircraft Carrier (Nuclear-Propulsion)		1
19			DDG Guided Missile Destroyer		2
20			LCS Littoral Combat Ship		2
21			LHA Amphibious Assault Ship (General Purpose)		1
22			LPD Amphibious Transport Dock		3
23			SSN Submarine (Nuclear-Powered)		2
24			JHSV Joint High Speed Vessel		1
25			AKE Dry Cargo and Ammunition Ship		2
26		Under construction in US by Navy, unassigned to fleet Total			15
27		Under construction in US for US Army, NAVSEA is the contracting activity	JHSV Joint High Speed Vessel		1
28		Under construction in US for US Army, NAVSEA is the contracting activity Total			1
29	Active	Active, in commission	AGER Environmental Research Ship		1
30			CVN Multi-Purpose Aircraft Carrier (Nuclear-Propulsion)		11
31			CG Guided Missile Cruiser		22
32			DDG Guided Missile Destroyer		61
33			FFG Guided Missile Frigate		16
34			LCC Amphibious Command Ship		1
35			LCS Littoral Combat Ship		2
36			LHA Amphibious Assault Ship (General Purpose)		1
37			LHD Amphibious Assault Ship (Multi-Purpose)		8
38			LPD Amphibious Transport Dock		7
39			LSD Dock Landing Ship		12
40			MCM Mine Countermeasures Ship		14
41			PC Patrol Coastal		13
42			SSBN Ballistic Missile Submarine (Nuclear-Powered)		14
43			SSGN Guided Missile Submarine (Nuclear-Powered)		4
44			SSN Submarine (Nuclear-Powered)		53
45			Other		1
46		Active, in commission Total			241
47		Active, In service	EDD Self Defense Test Ship		1
48			IX Unclassified Miscellaneous		1
49			LPD Amphibious Transport Dock		1
50		Active, In service Total			3
51		Active, in commission / Military Sealift Command (MSC), Special Mission Support	AS Submarine Tender		2
52		Active, in commission / Military Sealift Command (MSC), Special Mission Support Total	LCC Amphibious Command Ship		1
53	Naval Reserve Force, Active	Naval Reserve Force, Active	FFG Guided Missile Frigate		10
54		Naval Reserve Force, Active Total			10
55	Stand Down	In commission, In Reserve (Stand Down) commencement of inactivation availability	SSN Submarine (Nuclear-Powered)		2
56		In commission, In Reserve (Stand Down) commencement of inactivation availability Total			2

Figure 26. Top portion of *Basic PivotTable* fully expanded

A	B	C	D	E	F	G
1		FOR NVR'S CURRENT PAGE ON SHIP BATTLE FORCES, CLICK HERE				
2						
3	Count of Ship Name					
4	Status Group	Status	NVR Type	Hull No.	Ship Name	Total
5	Authorized	Authorized, for US Navy construction	AGS Surveying Ship	AGS 66	NO NAME	1
6			AGS Surveying Ship Total			1
7			DDG Guided Missile Destroyer	DDG 1001	MICHAEL MONSOOR	1
8				DDG 114	NO NAME	1
9				DDG 115	NO NAME	1
10			DDG Guided Missile Destroyer Total			3
11			LCS Littoral Combat Ship	LCS 5	MILWAUKEE	1
12				LCS 6	JACKSON	1
13				LCS 7	DETROIT	1
14				LCS 8	MONTGOMERY	1
15			LCS Littoral Combat Ship Total			4
16			LPD Amphibious Transport Dock	LPD 26	JOHN P MURTHA	1
17			LPD Amphibious Transport Dock Total			1
18			SSN Submarine (Nuclear-Powered)	SSN 784	NORTH DAKOTA	1
19				SSN 785	JOHN WARNER	1
20				SSN 786	NO NAME	1
21				SSN 787	NO NAME	1
22				SSN 788	NO NAME	1
23				SSN 789	NO NAME	1
24				SSN 790	NO NAME	1
25				SSN 791	NO NAME	1
26			SSN Submarine (Nuclear-Powered) Total			8
27			JHSV Joint High Speed Vessel	JHSV 3	FORTITUDE	1
28				JHSV 4	FALL RIVER	1
29				JHSV 5	RESOLUTE	1
30			JHSV Joint High Speed Vessel Total			3
31		Authorized, for US Navy construction Total				20
32		Authorized, for construction	JHSV Joint High Speed Vessel	JHSV 6	NO NAME	1
33				JHSV 7	COURAGEOUS	1
34			JHSV Joint High Speed Vessel Total			2
35		Authorized, for construction Total				2
36		Under construction	Hull number assigned, authorized to be built, construction contract has not been awarded	LPD Amphibious Transport Dock		
37					LPD 27	NO NAME
38						1
39			Hull number assigned, authorized to be built, construction contract has not been awarded Total			1
40		Under construction	Under construction in US by Navy, unassigned to fleet	AGM Missile Range Instrumentation Ship	AGM 25	HOWARD O. LORENZEN
41				AGM Missile Range Instrumentation Ship Total		1
42				CVN Multi-Purpose Aircraft Carrier (Nuclear-Propulsion)	CVN 78	GERALD R. FORD
43				CVN Multi-Purpose Aircraft Carrier (Nuclear-Propulsion) Total		1
44				DDG Guided Missile Destroyer	DDG 1000	ZUMWALT
45					DDG 112	MICHAEL MURPHY
46				DDG Guided Missile Destroyer Total		2
47				LCS Littoral Combat Ship	LCS 3	FORT WORTH
48					LCS 4	CORONADO
49				LCS Littoral Combat Ship Total		2
50				LHA Amphibious Assault Ship (General Purpose)	LHA 6	AMERICA
51				LHA Amphibious Assault Ship (General Purpose) Total		1
52				LPD Amphibious Transport Dock	LPD 23	ANCHORAGE
53					LPD 24	ARLINGTON
54					LPD 25	SOMERSET
55				LPD Amphibious Transport Dock Total		3
56				SSN Submarine (Nuclear-Powered)	SSN 782	MISSISSIPPI
57					SSN 783	MINNESOTA
58			SSN Submarine (Nuclear-Powered) Total			2

The QuikLook pivot tables

As the name implies, these pivot tables are intended for quick, immediate display of fleet compositions and ship counts according to two standard classification and counting systems:

1. The system defined in SECNAV's 5030.8A Instruction on vessel classification and Battleforce ship counting [26], and
2. The system formerly used by NVR to classify ships into forces.⁵

SECNAVINST 5030.8A on Vessel Classification and Battleforce Ship Counting. In the last update [24], we modified the database to account for the system defined in the SECNAV Instruction 5030.8A.

Figure 27 illustrates the general organization of the 5030.8A system and also the specific example of the scheme applied to Navy surface combatants.

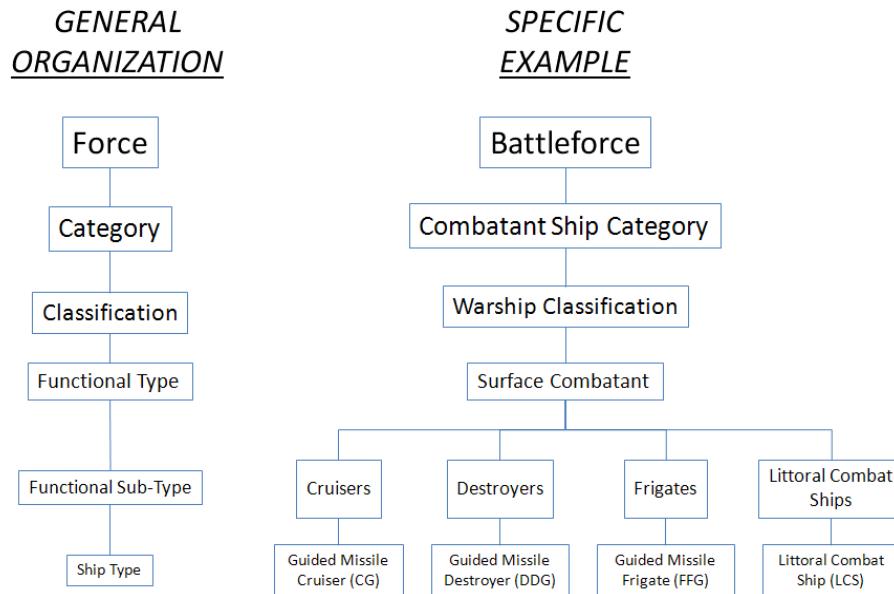
At the top level of organization, i.e. the Force level, 5030.8A identifies two Forces: Battleforce and Non-Battleforce. The instruction then specifies a sequence of increasing specificity down to the lowest level, that of ship-type.

The instruction explicitly defines “Categories” and “Classifications.” In our example, The Category is the Combatant Ship Category and the Classification is the Warship Classification.

The 5030.8A instruction does not explicitly label the next two levels, So we refer to them as “Functional Type” and “Sub-Functional Type,” respectively. In the example, Surface Combatant is the Functional Type. The Functional Sub-Types included, Cruisers, Destroyers, Frigates, and Littoral Combat Ships.

5. NVR is in transition from its former system to that of the SECNAV instruction. The current NVR system is actually a hybrid of the two systems.

Figure 27. General 5030.8A organization with an example



Specific Ship Types are Guided Missile Cruisers (CGs), Guided Missile Destroyers (DDGs), Guided Missile Frigates (FFGs), and Littoral Combat Ships (LCSs).

In figure 28, we show the composition of the Battleforce in terms of the 5030.8A ship categories, classifications, and types. Likewise, figure 29 shows the organization of the Non-Battleforce.

The colored boxes at the bottom of these figures indicate the respective custodians of the ships. Blue designates U.S. Navy. Gray depicts MSC. Green accounts for the ships under MSC custody, but crewed by hybrid of Navy military personnel and MSC civilians.

To accommodate the 5030.8A information, we added four fields:

- Column K: 5030.8A Force
- Column L: 5030.8A Ship Category
- Column M: 5030.8A Ship Classification
- Column N: 5030.8A Ship Type

Figure 28. Composition of the 5030.8A Battleforce

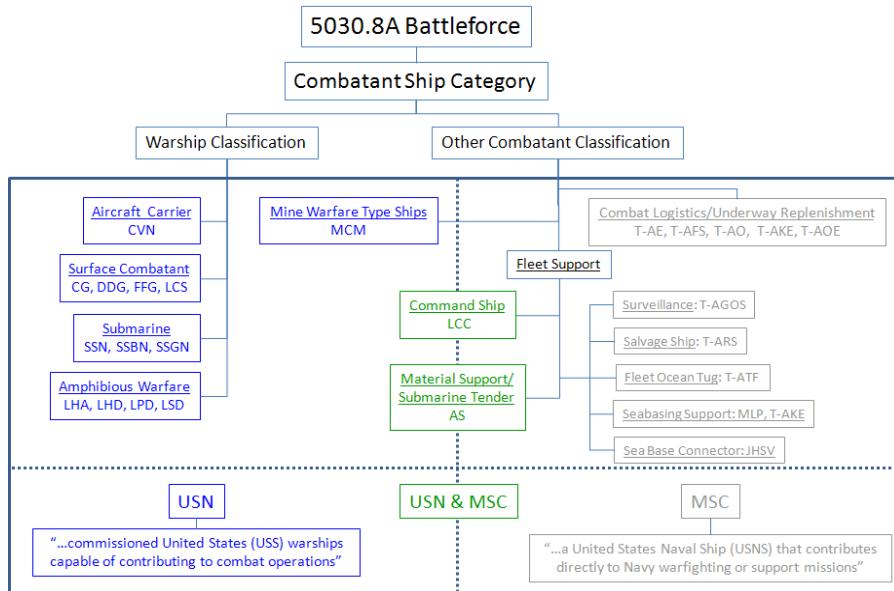
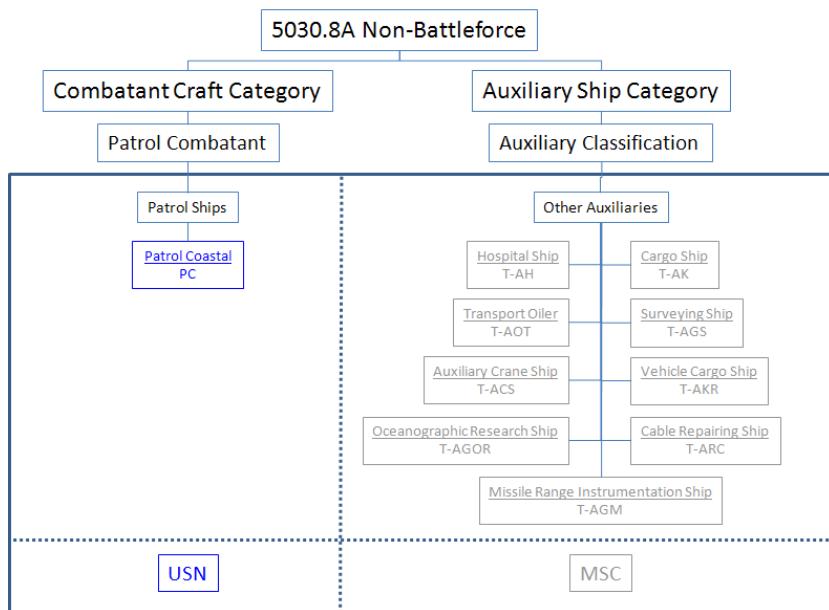


Figure 29. Composition of the 5030.8A Non-Battleforce



To populate these fields, we first used the SECNAV instruction as a guide. Then we confirmed our assignments using the Navy Ship Annual Supplemental Data Table (SASDT) in the President's Budget submittal for Fiscal Year 2012 [47].

After populating the data worksheet, we built two QuikLook pivot tables : *QuikLook_5030.8A Battleforce* and *QuikLook_5030.8A NonBattleforce*.

Figure 30 shows the compressed display of *QuikLook_5030.8A Battleforce* available when the tab is first opened. You can see the total count of ships in the Battleforce, as well as the makeup by 5030.8A categories, classifications, and types.

Cell D1 contains a link to the NVR's current count of the Ship Battle Forces for quick reference (See figure 31).

If you expand the entire 5030.8A Ship Category field in column A (using the same steps we discussed above for *Basic PivotTable*) and show individual ship names and hull numbers, you will see the complete composition of the Battleforce as in figure 32.

Figures 33 and 34 are similar views for the Non-Battleforce ships.

Figure 30. Initial view of QuikLook_5030.8A Battleforce

A	B	C	D	E	F	G
Return to The Directory			FOR NVR'S CURRENT PAGE ON SHIP BATTLE FORCES, CLICK HERE			
1						
2						
3	Count of Ship Name					
4	5030.8A Force	5030.8A Ship Category	5030.8A Ship Classification	5030.8A Ship Type	Hull No.	Ship Name
5	Battleforce	Combatant Ship	Warship/Aircraft Carrier	Conventional Take Off and Landing Aircraft Carriers/Multi-purpose Aircraft Carrier (nuclear-powered)	11	
6			Warship/Aircraft Carrier Total		11	
7			Warship/Surface Combatant	Cruisers/Guided Missile Cruiser	22	
8				Destroyers/Guided Missile Destroyer	61	
9				Frigates/Guided Missile Frigate	26	
10				Littoral Combat Ship/Littoral Combat Ship	2	
11			Warship/Surface Combatant Total		111	
12			Warship/Submarine	Attack Submarines/Submarine (nuclear-powered)	53	
13				Ballistic Missile Submarines/Ballistic Missile Submarine (nuclear-powered)	14	
14				Guided Missile Submarines/Guided Missile Submarine (nuclear-powered)	4	
15			Warship/Submarine Total		71	
16			Warship/Amphibious Warfare	Amphibious Helicopter and Landing Craft Carriers/Amphibious Assault Ship (general purpose)	1	
17				Amphibious Helicopter and Landing Craft Carriers/Amphibious Assault Ship (multi-purpose)	8	
18				Amphibious Helicopter and Landing Craft Carriers/Amphibious Transport Dock	8	
19				Landing Craft Carriers/Dock Landing Ship	12	
20			Warship/Amphibious Warfare Total		29	
21			Other Combatant/Combat Logistics	Underway Replenishment/Fast Combat Support Ship	4	
22				Underway Replenishment/Ammunition Ship	1	
23				Underway Replenishment/Dry Cargo and Ammunition Ship	12	
24				Underway Replenishment/Oiler	15	
25			Other Combatant/Combat Logistics Total		32	
26			Other Combatant/Fleet Support	Command/Command Ship	2	
27				Fleet Ocean Tugs/Fleet Ocean Tugs	4	
28				Material Support/Submarine Tender	2	
29				Salvage Ships/Salvage Ships	4	
30				Surveillance/Surveillance	5	
31			Other Combatant/Fleet Support Total		17	
32			Other Combatant/Mine Warfare Type Ships	Mine Countermeasures Ships/Mine Countermeasures Ship	14	
33			Other Combatant/Mine Warfare Type Ships Total		14	
34		Combatant Ship Total			285	
35	Grand Total				285	
36						
37						

[4] [◀] [▶] [■] The Document / The Directory / DataTableOriginal_Dec11 / DataTableCopy / Basic PivotTable / QuikLook_5030.8A Battleforce / QuikLook_5030.8A NonBattleforce / QuikLook [I] [◀] [■]

Figure 31. NVR page on Ship Battle Forces composition


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Ship Battle Forces - 285

Aircraft Carriers

Class	No. of Hulls
CVN 65	1
CVN 68	10

Surface Combatants

Class	No. of Hulls
CG 47	22
DDG 51	62
FFG 7	15
LCS	2

Submarines

Class	No. of Hulls
SSBN 726	14
SSGN 726	4
SSN 21	3
SSN 688	42
SSN 774	9

Amphibious Warfare Ships

Class	No. of Hulls
LHA 1	1
LHD 1	8
LPD 17	6
LPD 4	1
LSD 41	8
LSD 49	4

Mine Warfare Ships

Class	No. of Hulls
MCM 1	14

Combat Logistics Ships

Class	No. of Hulls
AE 26	1
AKE 1	13
AO 187	15
AOE 6	4

Fleet Support

Class	No. of Hulls
AFSB 15	1
AGOS 19	4
AGOS 23	1
ARS 50	4
AS 39	2
ATF 166	4
LCC 19	2
JHSV 1	0
MLP 1	0

Naval Reserve Force, Active

Class	No. of Hulls
FFG 7	8

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48

Figure 32. Top portion of the fully expanded view of *QuikLook_5030.8A Battleforce*

A	B	C	D	E	F	G
Return to The Directory			FOR NVF'S CURRENT PAGE ON SHIP BATTLE FORCES. CLICK HERE			
1						
2						
3	Count of Ship Name					
4	5030.8A Force	5030.8A Ship Category	5030.8A Ship Classification	5030.8A Ship Type	Hull No.	Ship Name
5	Battleforce	Combatant Ship	Warship/Aircraft Carrier	Conventional Take Off and Landing Aircraft Carriers/Multi-purpose Aircraft Carrier (nuclear-powered)		Total
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16				Conventional Take Off and Landing Aircraft Carriers/Multi-purpose Aircraft Carrier (nuclear-powered) Total		11
17						11
18		Warship/Aircraft Carrier Total	Warship/Surface Combatant	Cruisers/Guided Missile Cruiser	CG 52	BUNKER HILL
19					CG 53	MOBILE BAY
20					CG 54	ANTIETAM
21					CG 55	LEYTE GULF
22					CG 56	SAN JACINTO
23					CG 57	LAKE CHAMPLAIN
24					CG 58	PHILIPPINE SEA
25					CG 59	PRINCETON
26					CG 60	NORMANDY
27					CG 61	MONTEREY
28					CG 62	CHANCELLORSVILLE
29					CG 63	COWPENS
30					CG 64	GETTYSBURG
31					CG 65	CHOSIN
32					CG 66	HUE CITY
33					CG 67	SHILOH
34					CG 68	ANZIO
35					CG 69	VICKSBURG
36					CG 70	LAKE ERIE
37					CG 71	CAPE ST. GEORGE
38					CG 72	VELLA GULF
39					CG 73	PORT ROYAL
40		Cruisers/Guided Missile Cruiser Total				22
41						
42						
43						
44				Destroyers/Guided Missile Destroyer	DDG 100	KIDD
45					DDG 101	GRIDLEY
46					DDG 102	SAMPSON
47					DDG 103	TRUXTUN
48					DDG 104	STERETT
49					DDG 105	DEWEY
50					DDG 106	STOCKDALE
51					DDG 107	GRAVELY
52					DDG 108	WAYNE E. MEYER
53					DDG 109	JASON DUNHAM
54					DDG 110	WILLIAM P. LAWRENCE
55					DDG 111	SPRUANCE
56					DDG 51	ARLEIGH BURKE
57					DDG 52	BARRY
58					DDG 53	JOHN PAUL JONES
					DDG 54	CURTIS WILBUR
					DDG 55	STOUT
					DDG 56	JOHN S. MCCAIN
14	◀ ▶ ▷	The Document	The Directory	DataTableOriginal_Dec11	DataTableCopy	Basic PivotTable
Ready	Scroll Lock	Print	QuikLook_5030.8A Battleforce	QuikLook_5030.8A NonBattleforce	QuikLook_Nv	66%

Figure 33. Compressed view of QuikLook_5030.8A NonBattleforce

A	B	C	D	E	F	G
Return to The Directory						
1						
2 Count of Ship Name						
3 5030.8A Force	5030.8A Ship Category	5030.8A Ship Classification	5030.8A Ship Type	Hull No.(NVR L	Ship Name	Total
4 <input checked="" type="checkbox"/> Non-Battleforce	<input checked="" type="checkbox"/> Combatant Craft	<input checked="" type="checkbox"/> Patrol Combatant	<input checked="" type="checkbox"/> Patrol Ships/Patrol Coastal			13
5	Combatant Craft Total					13
6	<input checked="" type="checkbox"/> Auxiliary Ship	<input checked="" type="checkbox"/> Auxiliary/Support Type Ship	<input checked="" type="checkbox"/> Other Auxiliaries/Cable Repairing Ship			1
7			<input checked="" type="checkbox"/> Other Auxiliaries/Cargo Ship			11
8			<input checked="" type="checkbox"/> Other Auxiliaries/Hospital Ship			2
9			<input checked="" type="checkbox"/> Other Auxiliaries/Missile Range Instrumentation Ship			1
10			<input checked="" type="checkbox"/> Other Auxiliaries/Vehicle Cargo Ship			19
11			<input checked="" type="checkbox"/> Other Auxiliaries/Transport Oiler			1
12			<input checked="" type="checkbox"/> Other Auxiliaries/Surveying Ship			7
13	Auxiliary Ship Total					42
14 Grand Total						55
15						
16						
17						
18						
19						
20						
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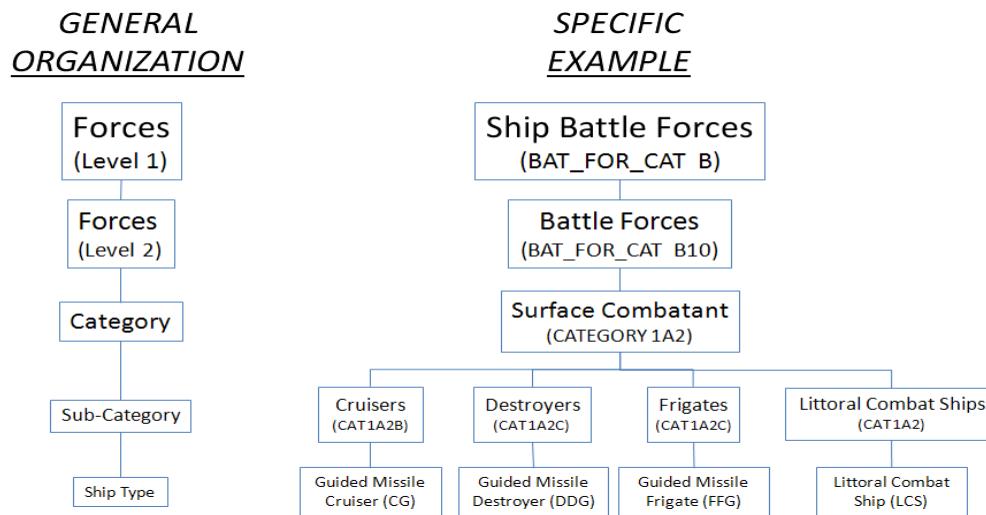
Figure 34. Expanded view of QuikLook_5030.8A NonBattleforce

A	B	C	D	E	F	G
Return to The Directory						
1 Count of Ship Name						
2 5030.8A Force	3 5030.8A Ship Category	4 5030.8A Ship Classification	5 5030.8A Ship Type	6 Hull No./NMF	7 Ship Name	8 Total
9	10 Non-Battleforce	11 Combatant Craft	12 Patrol Combatant	13 Patrol Ships/Patrol Coastal	14 PC 2 TEMPEST	15 1
15				16 PC 3 HURRICANE	17 1	
16				18 PC 4 MONSOON	19 1	
17				20 PC 5 TYPHOON	21 1	
18				22 PC 6 SIROCCO	23 1	
19				24 PC 7 SQUALL	25 1	
20				26 PC 8 ZEPHYR	27 1	
21				28 PC 9 CHINOOK	29 1	
22				30 PC 10 FIREBOLT	31 1	
23				32 PC 11 WHIRLWIND	33 1	
24				34 PC 12 THUNDERBOLT	35 1	
25				36 PC 13 SHAMAL	37 1	
26				38 PC 14 TORNADO	39 1	
27				40 Patrol Ships/Patrol Coastal Total	41 13	
28				42	43	
29				44 Combatant Craft Total	45 13	
30				46	47	
31				48 Auxiliary Ship	49	
32				50	51	
33				52	53	
34				54	55	
35				56	57	
36				58	59	
37				60	61	
38				62	63	
39				64	65	
40				66	67	
41				68	69	
42				70 Grand Total	71	
43				72	73	
44				74	75	
45				76	77	
46				78	79	
47				80	81	
48				82	83	
49				84	85	
50				86	87	
51				88	89	
52				90	91	
53				92	93	
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63				112	113	
64				114	115	
65				116	117	
66				118	119	
67				120	121	
68				122	123	
69				124	125	
70				126	127	
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72				130	131	
73				132	133	
74				134	135	
75				136	137	
76				138	139	
77				140	141	
78				142	143	
79				144	145	
80				146	147	
81				148	149	
82				150	151	
83				152	153	
84				154	155	
85				156	157	
86				158	159	
87				160	161	
88				162	163	
89				164	165	
90				166	167	
91				168	169	
92				170	171	
93				172	173	
94				174	175	
95				176	177	
96				178	179	
97				180	181	
98				182	183	
99				184	185	
100				186	187	
101				188	189	
102				190	191	
103				192	193	
104				194	195	
105				196	197	
106				198	199	
107				200	201	
108				202	203	
109				204	205	
110				206	207	
111				208	209	
112				210	211	
113				212	213	
114				214	215	
115				216	217	
116				218	219	
117				220	221	
118				222	223	
119				224	225	
120				226	227	
121				228	229	
122				230	231	
123				232	233	
124				234	235	
125				236	237	
126				238	239	
127				240	241	
128				242	243	
129				244	245	
130				246	247	
131				248	249	
132				250	251	
133				252	253	
134				254	255	
135				256	257	
136				258	259	
137				260	261	
138				262	263	
139				264	265	
140				266	267	
141				268	269	
142				270	271	
143				272	273	
144				274	275	
145				276	277	
146				278	279	
147				280	281	
148				282	283	
149				284	285	
150				286	287	
151				288	289	
152				290	291	
153				292	293	
154				294	295	
155				296	297	
156				298	299	
157				300	301	
158				302	303	
159				304	305	
160				306	307	
161				308	309	
162				310	311	
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167				320	321	
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170				326	327	
171				328	329	
172				330	331	
173				332	333	
174				334	335	
175				336	337	
176				338	339	
177				340	341	
178				342	343	
179				344	345	
180				346	347	
181				348	349	
182				350	351	
183				352	353	
184				354	355	
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186				358	359	
187				360	361	
188				362	363	
189				364	365	
190				366	367	
191				368	369	
192				370	371	
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203				392	393	
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205				396	397	
206				398	399	
207				400	401	
208				402	403	
209				404	405	
210				406	407	
211				408	409	
212				410	411	
213				412	413	
214				414	415	
215				416	417	
216				418	419	
217				420	421	
218				422	423	
219				424	425	
220				426	427	
221				428	429	
222				430	431	
223				432	433	
224				434	435	
225				436	437	
226				438	439	
227				440	441	
228				442	443	
229				444	445	
230				446	447	
231				448	449	
232				450	451	
233				452	453	
234				454	455	
235				456	457	
236				458	459	
237				460	461	
238				462	463	
239				464	465	
240				466	467	
241				468	469	
242				470	471	
243				472	473	
244				474	475	
245				476	477	
246				478	479	
247				480	481	
248				482	483	
249				484	485	
250				486	487	
251				488	489	
252				490	491	
253				492	493	
254				494	495	
255				496	497	
256				498	499	
257				500	501	
258				502	503	
259				504	505	
260						

The Former NVR classification and counting system. The former NVR system of organization and counting is much like the system previously used in the Navy Budget. (For example, see [48].) In figure 35, we show the general scheme of organization. The term, “Forces,” is used at two different levels in this system. For the sake of distinguishing them, we label them as “Level 1” and “Level 2” respectively.

In figure 35, we present the case of surface combatants as a specific example. In the example here, we’ve annotated the boxes with the associated Battle Force Categories (BAT_FOR_CATs) and Budget Categories to show the linkages to the old budget system.

Figure 35. Former NVR system: General organization with an example



In figures 36 and 37, we show the composition of the two Level-1 Forces: the Ship Battle Forces, and the Local Defense and Miscellaneous Support Forces.

Figure 36. Composition of NVR Ship Battle Forces

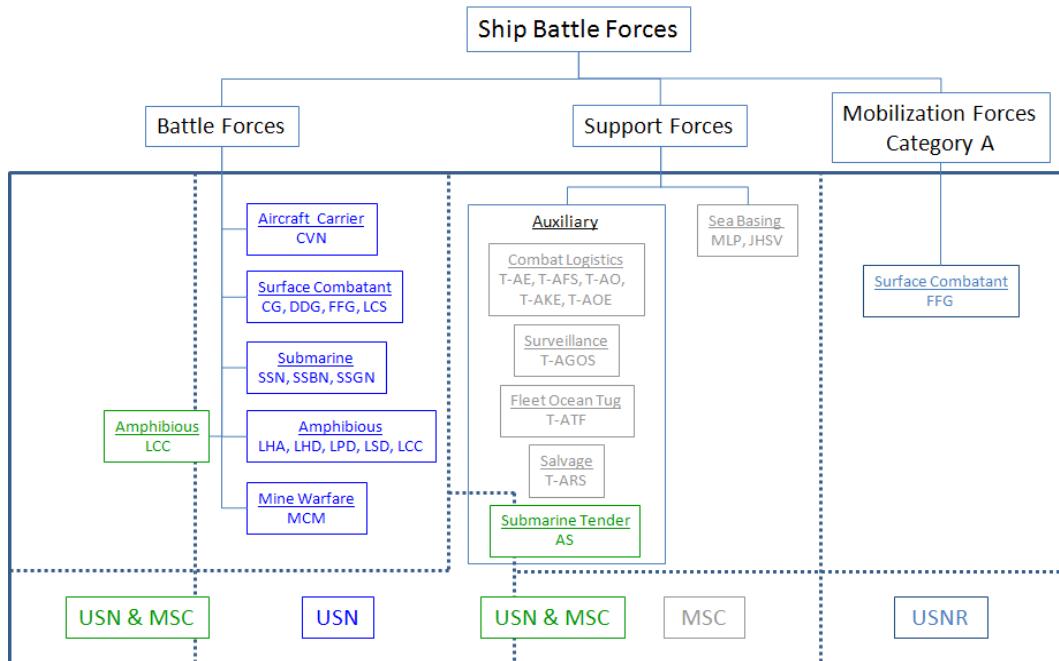
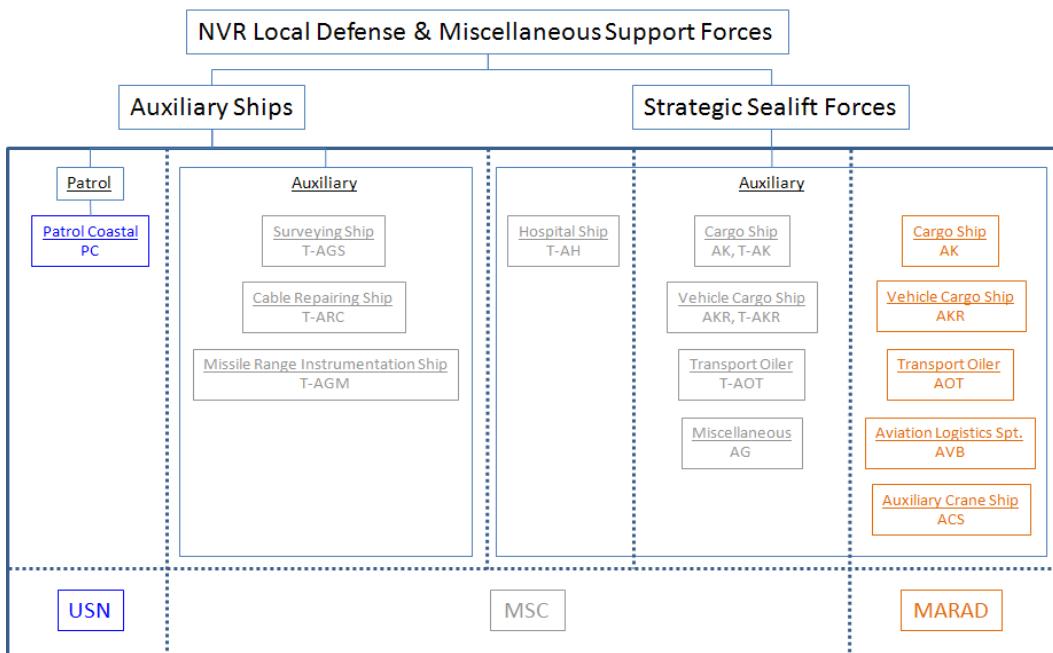


Figure 37. Composition of NVR Local Defense and Miscellaneous Support Forces



The two QuikLook pivot tables for the former NVR scheme of organization are:

- *QuikLook_NVR Ship Battle Forces*
- *QuikLook_NVRLocDef&MiscSptForces*

Figures 38 displays the initial, compressed view of *QuikLook_NVR Ship Battle Forces*. The grouping progresses from NVR Force – Level 2, through the NVR Status Categories and Status designations, the NVR Ship Type, to the individual Ship Names and Hull Numbers.

Figure 39 shows a fully expanded view that reveals the individual ships comprising the various levels of organization.

In like manner, figures 40 and 41 show the respective views of *Quiklook_NVRLocDef&MiscSptForces*.

Figure 38. Initial view of QuikLook_NVR Ship Battle Forces

A	B	C	D	E	F	G
1	Return to The Directory	FOR NVR'S CURRENT PAGE ON SHIP BATTLE FORCES. CLICK HERE				
2	Count of Ship Name					
3	NVR Force	Status Group	Status	NVR Type	Hull No. (NVR Link)	Ship Name
4	<input checked="" type="checkbox"/> Battle Force	<input checked="" type="checkbox"/> Active	<input checked="" type="checkbox"/> Active, in commission	<input checked="" type="checkbox"/> CVN Multi-Purpose Aircraft Carrier (Nuclear-Propulsion)	11	
5				<input checked="" type="checkbox"/> CG Guided Missile Cruiser	22	
6				<input checked="" type="checkbox"/> DDG Guided Missile Destroyer	61	
7				<input checked="" type="checkbox"/> FFG Guided Missile Frigate	16	
8				<input checked="" type="checkbox"/> LCC Amphibious Command Ship	1	
9				<input checked="" type="checkbox"/> LCS Littoral Combat Ship	2	
10				<input checked="" type="checkbox"/> LHA Amphibious Assault Ship (General Purpose)	1	
11				<input checked="" type="checkbox"/> LHD Amphibious Assault Ship (Multi-Purpose)	8	
12				<input checked="" type="checkbox"/> LPD Amphibious Transport Dock	7	
13				<input checked="" type="checkbox"/> LSD Dock Landing Ship	12	
14				<input checked="" type="checkbox"/> MCM Mine Countermeasures Ship	14	
15				<input checked="" type="checkbox"/> SSBN Ballistic Missile Submarine (Nuclear-Powered)	14	
16				<input checked="" type="checkbox"/> SSGN Guided Missile Submarine (Nuclear-Powered)	4	
17				<input checked="" type="checkbox"/> SSN Submarine (Nuclear-Powered)	53	
18						
19			Active, in commission Total			226
20			<input checked="" type="checkbox"/> Active, In service	<input checked="" type="checkbox"/> LPD Amphibious Transport Dock		1
21						
22			Active, In service Total			1
23			<input checked="" type="checkbox"/> Active, in commission / Military Sealift Command (MSC), Special Mission Support	<input checked="" type="checkbox"/> LCC Amphibious Command Ship		1
24			Active, in commission / Military Sealift Command (MSC), Special Mission Support Total			1
25		<input checked="" type="checkbox"/> Military Sealift Command, Naval Fleet Auxiliary Force	<input checked="" type="checkbox"/> Military Sealift Command (MSC) Naval Fleet Auxiliary Force	<input checked="" type="checkbox"/> T-AE Ammunition Ship		1
26				<input checked="" type="checkbox"/> T-AO Oilier	15	
27				<input checked="" type="checkbox"/> T-AOE Fast Combat Support Ship	4	
28				<input checked="" type="checkbox"/> T-AKE Dry Cargo and Ammunition Ship	11	
29			Military Sealift Command (MSC) Naval Fleet Auxiliary Force Total			31
30			<input checked="" type="checkbox"/> Military Sealift Command (MSC) In Service/Naval Fleet Auxiliary Force	<input checked="" type="checkbox"/> T-AKE Dry Cargo and Ammunition Ship		1
31	<input checked="" type="checkbox"/> Mobilization Cat. A	<input checked="" type="checkbox"/> Naval Reserve Force, Active	<input checked="" type="checkbox"/> Naval Reserve Force, Active	<input checked="" type="checkbox"/> FFG Guided Missile Frigate		10
32			Naval Reserve Force, Active Total			10
33	<input checked="" type="checkbox"/> Support Force	<input checked="" type="checkbox"/> Active	<input checked="" type="checkbox"/> Active, in commission / Military Sealift Command (MSC), Special Mission Support	<input checked="" type="checkbox"/> AS Submarine Tender		2
34			Active, in commission / Military Sealift Command (MSC), Special Mission Support Total			2
35		<input checked="" type="checkbox"/> Military Sealift Command, Naval Fleet Auxiliary Force	<input checked="" type="checkbox"/> Military Sealift Command (MSC) Naval Fleet Auxiliary Force	<input checked="" type="checkbox"/> T-ARS Salvage Ship		4
36				<input checked="" type="checkbox"/> T-ATF Fleet Ocean Tug		4
37			Military Sealift Command (MSC) Naval Fleet Auxiliary Force Total			8
38		<input checked="" type="checkbox"/> Military Sealift Command, Special Mission Support	<input checked="" type="checkbox"/> Military Sealift Command (MSC) Special Mission Support	<input checked="" type="checkbox"/> T-AGOS Ocean Surveillance Ship		5
39			Military Sealift Command (MSC) Special Mission Support Total			5
40	Grand Total					285
41						
42						
43						

Figure 39. Top portion of the fully expanded view of QuikLook_NVR Ship Battle Forces

A	B	C	D	E	F	G
1		FOR NVR'S CURRENT PAGE ON SHIP BATTLE FORCES, CLICK HERE				
2						
3	Count of Ship Name					
4	NVR Force	Status Group	Status	NVR Type	Hull No. (NVR)	Ship Name
5	Battle Force	Active	Active, in commission	CVN Multi-Purpose Aircraft Carrier (Nuclear-Propulsion)	CVN 65	ENTERPRISE
6					CVN 68	NIMITZ
7					CVN 69	DWIGHT D. EISENHOWER
8					CVN 70	CARL VINSON
9					CVN 71	THEODORE ROOSEVELT
10					CVN 72	ABRAHAM LINCOLN
11					CVN 73	GEORGE WASHINGTON
12					CVN 74	JOHN C. STENNIS
13					CVN 75	HARRY S. TRUMAN
14					CVN 76	RONALD REAGAN
15					CVN 77	GEORGE H. W. BUSH
16				CVN Multi-Purpose Aircraft Carrier (Nuclear-Propulsion) Total		11
17				CG Guided Missile Cruiser	CG 52	BUNKER HILL
18					CG 53	MOBILE BAY
19					CG 54	ANTITAM
20					CG 55	LEYTE GULF
21					CG 56	SAN JACINTO
22					CG 57	LAKE CHAMPLAIN
23					CG 58	PHILIPPINE SEA
24					CG 59	PRINCETON
25					CG 60	NORMANDY
26					CG 61	MONTREAL
27					CG 62	CHAMPELLORSVILLE
28					CG 63	COVINGTON
29					CG 64	GETTYSBURG
30					CG 65	CHOSIN
31					CG 66	HUE CITY
32					CG 67	SHILOH
33					CG 68	ANZIO
34					CG 69	VICKSBURG
35					CG 70	LAKE ERIE
36					CG 71	CAPE ST. GEORGE
37					CG 72	VELLA GULF
38					CG 73	PORT ROYAL
39				CG Guided Missile Cruiser Total		22
40				DDG Guided Missile Destroyer	DDG 100	KIDD
41					DDG 101	GRIDLEY
42					DDG 102	SAMPSON
43					DDG 103	TRUXTON
44					DDG 104	STERETT
45					DDG 105	DEWEY
46					DDG 106	STOCKDALE
47					DDG 107	GRAVELY
48					DDG 108	WAYNE E. MEYER
49					DDG 109	JASON DUNHAM
50					DDG 110	WILLIAM P. LAWRENCE
51					DDG 111	SPRUANCE
52					DDG 51	ARLEIGH BURKE
53					DDG 52	BARRY
54					DDG 53	JOHN PAUL JONES
55					DDG 54	CURTIS WILBUR
56					DDG 55	STOUT
57					DDG 56	JOHN S. MCCAIN
58					DDG 57	MITSCHER
59					DDG 58	LABOON
60					DDG 59	RUSSELL
61					DDG 60	PAUL HAMILTON
62					DDG 61	RAMAGE
63					DDG 62	FITZGERALD
64					DDG 63	STETHEM
65					DDG 64	CARNEY
66					DDG 65	BENFOLD
67					DDG 66	CONGDON

६

Figure 40. Initial view of *QuikLook_NVRLocDef&MiscSptForces*

Figure 41. Top portion of the fully expanded *QuikLook_NVRLocDef&MiscSptForces*

A	B	C	D	E	F	G
1	Return To The Directory					
2						
3	Count of Ship Name					
4	NVR Force	Status Group	Status	NVR Type	Hull No. (NVR Link)	Ship Name
5	Auxiliary	Active	Active, in commission	PC Patrol Coastal	PC 10	FIREBOLT
6					PC 11	VHIRLWIND
7					PC 12	THUNDERBOLT
8					PC 13	SHAMAL
9					PC 14	TORNADO
10					PC 2	TEMPEST
11					PC 3	HURRICANE
12					PC 4	MONSOON
13					PC 5	TYphoon
14					PC 6	SIROCCO
15					PC 7	SQUALL
16					PC 8	ZEPHYR
17					PC 9	CHINOOK
18					PC Patrol Coastal Total	13
19			Active, in commission Total			13
20						
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Ship-Age PivotTable

In the section on “Changes in this update,” we discussed the addition of the *Ship-Age PivotTable* and the associated changes in *DataTableOriginal_Dec11* including the methodologies for calculating ship age. We will not repeat that presentation here.

Instead, we focus on the information presented in the pivot table. In figure 42, we show the opening view of *Ship-Age PivotTable*. The table shows age statistics according to the organizing scheme of the 5030.8A Instruction. Specifically, you can see the statistics down to the grouping of 5030.8A Ship Type.

The fields in the Data section of the table include four statistics

- *Count of Age*, i.e., the number of ships in the group
- *Average of Age* for ships in the group
- *Max of Age*, i.e., the age of the oldest ship in the group
- *Min of Age*, i.e., the age of the newest ship in the group

In figure 43, we show the top portion of the fully expanded *Ship-Age Table*. This view shows the individual ships in the group along with their respective dates of commission. Subtotals for the groups are shown as well.

So for example, there are 11 Navy aircraft carriers currently in the Battleforce. They are 24.1 years old on average. The oldest is USS *Enterprise* (CVN 65) at 50.7 years. And the newest is USS *George H.W. Bush* (CVN 77) at 3.2 years.

Figure 42. Initial view of *Ship-Age PivotTable*

60

Figure 43. Top portion of the fully expanded view of *Ship-Age Pivot Table*

A	B	C	D	E	F	G	H	I	J	K
1	Return To The Directory									
2										
3										
4	5030.8A Force	5030.8A Ship Category	5030.8A Ship Classification	5030.8A Ship Type	Hull No. [NVR Link]	Ship Name	Commission Date	Data		
5	Battleforce	Combatant Ship	Warship/Aircraft Carrier	Conventional Take Off and Landing Aircraft Carriers/Multi-purpose Aircraft Carrier (nuclear-powered)	CVN 65	ENTERPRISE	1/25/1961	Count of Age	Average of Age	Max of Age
6					CVN 68	NIMITZ	5/3/1975	1	37.3	37.3
7					CVN 69	DWIGHT D EISENHOWER	10/18/1977	1	34.8	34.8
8					CVN 70	CARL VINSON	3/13/1982	1	30.4	30.4
9					CVN 71	THEODORE ROOSEVELT	10/25/1986	1	25.7	25.7
10					CVN 72	ABRAHAM LINCOLN	1/11/1993	1	22.7	22.7
11					CVN 73	GEORGE WASHINGTON	7/4/1992	1	20.1	20.1
12					CVN 74	JOHN C. STENNIS	12/9/1995	1	16.7	16.7
13					CVN 75	HARRY S. TRUMAN	7/25/1998	1	14.0	14.0
14					CVN 76	RONALD REAGAN	7/12/2003	1	9.1	9.1
15					CVN 77	GEORGE H. W. BUSH	1/10/2009	1	3.2	3.2
16				Conventional Take Off and Landing Aircraft Carriers/Multi-purpose Aircraft Carrier (nuclear-powered) Total				11	24.1	50.7
17		Warship/Aircraft Carrier Total						11	24.1	50.7
18		Warship/Surface Combatant		Cruisers/Guided Missile Cruiser	CG 52	BUNKER HILL	9/20/1986	1	26.0	26.0
19					CG 53	MOBILE BAY	2/21/1987	1	25.6	25.6
20					CG 54	ANTIETAM	6/6/1987	1	25.3	25.3
21					CG 55	LEYTE GULF	9/26/1987	1	24.9	24.9
22					CG 56	SAN JACINTO	1/23/1988	1	24.7	24.7
23					CG 57	LAKE CHAMPLAIN	8/12/1988	1	24.1	24.1
24					CG 58	PHILIPPINE SEA	3/18/1989	1	23.5	23.5
25					CG 59	PRINCETON	2/11/1989	1	23.6	23.6
26					CG 60	NORMANDY	12/9/1989	1	22.7	22.7
27					CG 61	MONTEREY	6/16/1990	1	22.3	22.3
28					CG 62	CHANCELLORSVILLE	1/14/1991	1	22.9	22.9
29					CG 63	COWPENS	3/9/1991	1	21.7	21.7
30					CG 64	GETTYSBURG	6/22/1991	1	21.3	21.3
31					CG 65	CHOSEN	1/2/1991	1	21.7	21.7
32					CG 66	HUE CITY	9/14/1991	1	21.0	21.0
33					CG 67	SHILOH	7/8/1992	1	20.2	20.2
34					CG 68	ANZIO	5/2/1992	1	20.4	20.4
35					CG 69	VICKSBURG	1/14/1992	1	19.8	19.8
36					CG 70	LAKE ERIE	5/10/1993	1	19.3	19.3
37					CG 71	CAPE ST. GEORGE	6/12/1993	1	19.2	19.2
38					CG 72	VELLA GULF	9/18/1993	1	19.0	19.0
39					CG 73	PORT ROYAL	7/4/1994	1	18.2	18.2
40		Cruisers/Guided Missile Cruiser Total						22	22.2	26.0
41		Destroyers/Guided Missile Destroyer			DDG 100	KIDD	6/9/2007	1	5.6	5.6
42					DDG 101	GRIDLEY	2/10/2007	1	5.8	5.8
43					DDG 102	SAMPSON	1/3/2007	1	5.1	5.1
44					DDG 103	TRUXTUN	4/25/2009	1	3.7	3.7
45					DDG 104	STERETT	8/9/2008	1	4.4	4.4
46					DDG 105	DEWEY	3/6/2010	1	2.9	2.9

Appendix

Listing of the Visual Basic code for the macro, AgeFuncFlt

' This is the initial function. It takes in a start date and an end date.
Public Function AgeFuncFlt(stdate As Variant, endate As Variant)

```
' Dim our variables.  
Dim stvar As String  
Dim stmon As String  
Dim stday As String  
Dim styr As String  
Dim endvar As String  
Dim endmon As String  
Dim endday As String  
Dim endyr As String  
Dim stmonf As Integer  
Dim stdayf As Integer  
Dim styrf As Integer  
Dim styrflt As Single  
Dim endmonf As Integer  
Dim enddayf As Integer  
Dim endyrf As Integer  
Dim endyrfilt As Single  
Dim years As Single  
Dim yearsflt As Single
```

```
' This variable will be used to modify string length.  
Dim fx As Integer  
fx = 0
```

```
' Calls custom function sfunc which runs the Search worksheet function  
' and returns the results.  
' Searches for the first "/" sign in the start date.  
stvar = sfunc("/", stdate)
```

```

' Parse the month and day from the start date.
stmon = Left(stdate, sfunc("/", stdate) - 1)
stday = Mid(stdate, stvar + 1, sfunc("/", stdate, sfunc("/", stdate) + 1) - stvar - 1)

' Check the length of the day and month strings and modify the string
' length variable.
If Len(stday) = 1 Then fx = fx + 1
If Len(stmon) = 2 Then fx = fx + 1

' Parse the year, using information from the string length variable.
styr = Right(stdate, Len(stdate) - (sfunc("/", stdate) + 1) - stvar + fx)

' Change the text values we obtained to integers for calculation
' purposes.
stmonf = CInt(stmon)
stdayf = CInt(stday)
styrf = CInt(styr)
styrlt = styrf + stmonf / 12 + stdayf / 365.25

' Check for valid date entries.
If stmonf < 1 Or stmonf > 12 Or stdayf < 1 Or stdayf > 31 Or styrf < 1 Then
    AgeFuncFlt = "Invalid Date"
    Exit Function
End If

' Reset the string length variable.
fx = 0

' Parse the first "/" sign from the end date.
endvar = sfunc("/", endate)

' Parse the month and day from the end date.
endmon = Left(endate, sfunc("/", endate) - 1)
endday = Mid(endate, endvar + 1, sfunc("/", endate, sfunc("/", endate) + 1) - endvar - 1)

```

```
' Check the length of the day and month strings and modify the string  
' length variable.  
If Len(endday) = 1 Then fx = fx + 1  
If Len(endmon) = 2 Then fx = fx + 1  
  
' Parse the year, using information from the string length variable.  
endyr = Right(endate, Len(endate) - (sfunc("/", endate) + 1) - endvar + fx)  
  
' Change the text values we obtained to integers for calculation  
' purposes.  
endmonf = CInt(endmon)  
enndayf = CInt(ennday)  
endyrf = CInt(endyr)  
endyrflt = endyrf + endmonf / 12 + enndayf / 365.25  
  
' Check for valid date entries.  
If endmonf < 1 Or endmonf > 12 Or enndayf < 1 Or enndayf > 31 Or endyrf < 1 Then  
    AgeFuncFlt = "Invalid Date"  
    Exit Function  
End If  
  
' Determine the initial number of years by subtracting the first and  
' second year.  
years = endyrflt - styrflt  
  
' Look at the month and day values to make sure a full year has passed.  
' If stmonf > endmonf Then  
'     years = years - 1  
'End If  
  
'If stmonf = endmonf And stdayf > enndayf Then  
'     years = years - 1  
'End If
```

```
' Make sure that we are not returning a negative number and, if not,  
' return the years.  
If years < 0 Then  
    AgeFuncFlt = "Invalid Date"  
Else  
    AgeFuncFlt = years  
End If  
  
End Function  
  
' This is a second function that the first will call.  
' It runs the Search worksheet function with arguments passed from AgeFunc.  
' It is used so that the code is easier to read.  
Public Function sfunc(x As Variant, y As Variant, Optional z As Variant)  
    sfunc = Application.WorksheetFunction.Search(x, y, z)  
End Function
```

Glossary

ACS	Auxiliary Crane Ship
AG	Miscellaneous Auxiliary
AOT/T-AOT	Transport Oiler
AS	Submarine Tender
AVB	Aviation Logistic Support Ship
BAT_FOR_CAT	Battle Force Category
CG	Guided Missile Cruiser
CVN	Multi-purpose Aircraft Carrier (Nuclear-Propulsion)
DANFS	Dictionary of American Naval Fighting Ships
DDG	Guided Missile Destroyer
FFG	Guided Missile Frigate
ISDB	Integrated Ship Database
FOS	Full Operating Status
LCC	Amphibious Command Ship
LCS	Littoral Combat Ship
LHA	Amphibious Assault Ship (General Purpose)
LHD	Amphibious Assault Ship (Multi-Purpose)
LPD	Amphibious Transport Dock
LSD	Dock Landing Ship
MARAD	Maritime Administration (U.S. Department of Transportation)
MCM	Mine Countermeasures Ship
MLP	Mobile Landing Platform
MSC	Military Sealift Command
NAVSEA	Naval Sea Systems Command
NAVSHIPSPO	NAVSEA Shipbuilding Support Office
NDRF	National Defense Reserve Fleet
NHHC	Naval History & Heritage Command
NVR	Naval Vessel Register
OOA	Out of Action
PC	Patrol Coastal
PCU	Pre-Commissioning Unit

PMARS	Property Management & Archive Record System (MARAD)
ROS	Reduced Operating Status
RRF	Ready Reserve Fleet
SASDT	Ship Annual Supplemental Data Tables (Formerly, Ships and Aircraft Supplemental Data Tables)
SCN	Shipbuilding and Conversion, Navy
SSBN	Ballistic Missile Submarine (nuclear-powered)
SSGN	Guided Missile Submarine (nuclear-powered)
SSN	Attack Submarine (nuclear-powered)
T-AE	Ammunition Ship
T-AGM	Missile Range Instrumentation Ship
T-AGOS	Ocean Surveillance Ship
T-AGS	Surveying Ship
T-AH	Hospital Ship
AK/T-AK	Cargo Ship
T-AKE	Dry Cargo and Ammunition Ship
AKR/T-AKR	Vehicle Cargo Ship
T-AO	Oiler
T-AOE	Fast Combat Support Ship
T-ARC	Cable Repairing Ship
T-ARS	Salvage and Rescue Ship
T-ATF	Fleet Ocean Tug
UIC	Unit Identification Code
USNS	United States Naval Ship
USS	United States Ship

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List of figures

Figure 1. The Document worksheet	4
Figure 2. The Directory worksheet	5
Figure 3. Opening view of Ship-Age Pivot Table	6
Figure 4. New field for calculating ship age	8
Figure 5. Day and date display in DataTableOriginal_Dec11 .	10
Figure 6. The CNA web site (www.cna.org).	14
Figure 7. CNA's Solution Centers	15
Figure 8. Operations & Tactics Analysis web page	16
Figure 9. ISDB web page.	17
Figure 10. ISDB Database Archive web page.	18
Figure 11. The database — DataTableOriginal_Dec11	20
Figure 12. NVR page for USS George H W Bush (CVN 77) [38].	22
Figure 13. Navy Fact File page for aircraft carriers [39].	23
Figure 13. Navy Fact File page for aircraft carriers [39] (continued)	24
Figure 14. MSC Ship Inventory page for USNS Comfort (T-AH 20) [40]	26
Figure 15. MSC Fact Sheet for Hospital Ships [41]	27

Figure 16. Top portion of NHHC's DANFS page for USS Enterprise (CVN 65) [42].	28
Figure 17. NHHC Command Operations/Ship History index page for USS Enterprise [43]	29
Figure 18. Sample from USS Enterprise Command Operations Report for 2005 [44]	30
Figure 19. NVR's Homeport page for Norfolk, VA [45].	31
Figure 20. Legend for DataTableOriginal_Dec11 color scheme	32
Figure 21. The result of sorting by Ship Name — An example of data manipulation in DataTableCopy	34
Figure 22. Initial compressed view of Basic PivotTable	36
Figure 23. How to expand Status Group in Basic PivotTable	38
Figure 24. View of Basic PivotTable with Status Group expanded	39
Figure 25. Top portion of Basic PivotTable with Status Group and Status expanded	40
Figure 26. Top portion of Basic PivotTable fully expanded	41
Figure 27. General 5030.8A organization with an example	43
Figure 28. Composition of the 5030.8A Battleforce	44
Figure 29. Composition of the 5030.8A Non-Battleforce	44
Figure 30. Initial view of QuikLook_5030.8A Battleforce	46
Figure 31. NVR page on Ship Battle Forces composition	47
Figure 32. Top portion of the fully expanded view of QuikLook_5030.8A Battleforce	48

Figure 33. Compressed view of QuikLook_5030.8A NonBattleforce	49
Figure 34. Expanded view of QuikLook_5030.8A NonBattleforce	50
Figure 35. Former NVR system: General organization with an example	51
Figure 36. Composition of NVR Ship Battle Forces	52
Figure 37. Composition of NVR Local Defense and Miscellaneous Support Forces	52
Figure 38. Initial view of QuikLook_NVR Ship Battle Forces . .	54
Figure 39. Top portion of the fully expanded view of QuikLook_NVR Ship Battle Forces.	55
Figure 40. Initial view of QuikLook_ NVRLocDef&MiscSptForces	56
Figure 41. Top portion of the fully expanded QuikLook_NVRLocDef&MiscSptForces	57
Figure 42. Initial view of Ship-Age PivotTable	59
Figure 43. Top portion of the fully expanded view of Ship- Age Pivot Table	60

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